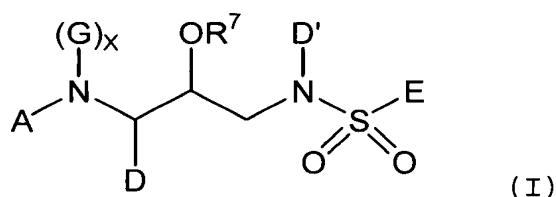


AMENDMENTS TO THE CLAIMS:

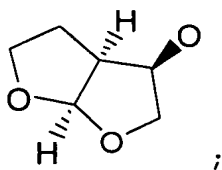
This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A compound of the formula (I):



and pharmaceutically acceptable salts thereof;  
wherein:

A is R'-C(O)-, wherein R' is



each R<sup>1</sup> is independently selected from -C(O)-, -S(O)<sub>2</sub>-, -C(O)-C(O)-, -O-C(O)-, -O-S(O)<sub>2</sub>-, -NR<sup>2</sup>-, -NR<sup>2</sup>-S(O)<sub>2</sub>-, -NR<sup>2</sup>-C(O)- or -NR<sup>2</sup>-C(O)-C(O)-;

each Ht is independently selected from C<sub>3</sub>-C<sub>7</sub> cycloalkyl; C<sub>5</sub>-C<sub>7</sub> cycloalkenyl; C<sub>6</sub>-C<sub>14</sub> aryl; or a 5-7 membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, N(R<sup>2</sup>), O, S and S(O)<sub>n</sub>; wherein

said aryl or said heterocycle is optionally fused to Q; and wherein any member of said Ht is optionally substituted with one or more substituents independently selected from oxo,  $-OR^2$ ,  $SR^2$ ,  $-R^2$ ,  $-N(R^2)(R^2)$ ,  $-R^2-OH$ ,  $-CN$ ,  $-CO_2R^2$ ,  $-C(O)-N(R^2)_2$ ,  $-S(O)_2-N(R^2)_2$ ,  $-N(R^2)-C(O)-R^2$ ,  $-N(R^2)-C(O)O-R^2$ ,  $-C(O)-R^2$ ,  $-S(O)_n-R^2$ ,  $-OCF_3$ ,  $-S(O)_n-Q$ , methylenedioxy,  $-N(R^2)-S(O)_2(R^2)$ , halo,  $-CF_3$ ,  $-NO_2$ , Q,  $-OQ$ ,  $-OR^7$ ,  $-SR^7$ ,  $-R^7$ ,  $-N(R^2)(R^7)$  or  $-N(R^7)_2$ ;

each  $R^2$  is independently selected from H, or  $C_1-C_4$  alkyl optionally substituted with a 3-7 membered saturated, partially saturated or unsaturated carbocyclic ring system; or a 5-7 membered saturated, partially saturated or unsaturated heterocyclic ring containing one or more heteroatoms selected from O, N, S,  $S(O)_n$  or  $N(R^{33})$ ; wherein any of said ring systems or  $N(R^{33})$  is optionally substituted with 1 to 4 substituents independently selected from  $-X'-Y'$ ,  $-O$ -arylalkyl,  $-S$ -arylalkyl,  $-N(Y')_2$ ,  $-N(H)$ -arylalkyl,  $-N(C_1-C_4$  alkyl)-arylalkyl, oxo,  $-O-(C_1-C_4$  alkyl), OH,  $C_1-C_4$  alkyl,  $-SO_2H$ ,  $-SO_2-(C_1-C_4$  alkyl),  $-SO_2-NH_2$ ,  $-SO_2-NH(C_1-C_4$  alkyl),  $-SO_2-N(C_1-C_4$  alkyl) $_2$ ,  $-NH_2$ ,  $-NH(C_1-C_4$  alkyl),  $-N(C_1-C_4$  alkyl) $_2$ ,  $-NH-C(O)H$ ,  $-N(C_1-C_4$  alkyl)- $C(O)H$ ,  $-NH-C(O)-C_1-C_4$  alkyl,  $-C_1-C_4$  alkyl-OH,  $-OH$ ,  $-CN$ ,  $-C(O)OH$ ,  $-C(O)O-C_1-C_4$  alkyl,  $-C(O)-NH_2$ ,  $-C(O)-NH(C_1-C_4$  alkyl),  $-C(O)-N(C_1-C_4$  alkyl) $_2$ , halo or  $-CF_3$ ;

$X'$  is  $-O-$ ,  $-S-$ ,  $-NH-$ ,  $-NHC(O)-$ ,  $-NHC(O)O-$ ,  $-NHSO_2-$ , or  $-N(C_1-C_4)$ alkyl-;

Y' is C<sub>1</sub>-C<sub>15</sub> alkyl, C<sub>2</sub>-C<sub>15</sub> alkenyl or alkynyl, wherein one to five carbon atoms in Y are optionally substituted with C<sub>3</sub>-C<sub>7</sub> cycloalkyl or C<sub>5</sub>-C<sub>6</sub> cycloalkenyl, C<sub>6</sub>-C<sub>14</sub> aryl or a 5-7 membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, NH, O, S and S(O)<sub>n</sub>;

each R<sup>3</sup> is independently selected from H, Ht, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl or C<sub>5</sub>-C<sub>6</sub> cycloalkenyl; wherein any member of said R<sup>3</sup>, except H, is optionally substituted with one or more substituents selected from -OR<sup>2</sup>, -C(O)-N(R<sup>2</sup>)<sub>2</sub>, -S(O)<sub>n</sub>-N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)-C(O)O(R<sup>2</sup>), -N(R<sup>2</sup>)-C(O)N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)-C(O)-R<sup>2</sup>, Ht, -CN, -SR<sup>2</sup>, -C(O)OR<sup>2</sup>, N(R<sup>2</sup>)-C(O)-R<sup>2</sup>;

each R<sup>33</sup> is selected from H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl or C<sub>5</sub>-C<sub>6</sub> cycloalkenyl, C<sub>6</sub>-C<sub>14</sub> aryl or a 5-7 membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, NH, O, S and S(O)<sub>n</sub>;

each n is independently 1 or 2;

G, when present, is selected from H, R<sup>7</sup> or C<sub>1</sub>-C<sub>4</sub> alkyl, or, when G is C<sub>1</sub>-C<sub>4</sub> alkyl, G and R<sup>7</sup> are bound to one another either directly or through a C<sub>1</sub>-C<sub>3</sub> linker to form a heterocyclic ring; or

when G is not present (i.e., when x in (G)<sub>x</sub> is 0), then the nitrogen to which G is attached is bound directly to

the R<sup>7</sup> group in -OR<sup>7</sup> with the concomitant displacement of one -  
ZM group from R<sup>7</sup>;

D is selected from C<sub>1</sub>-C<sub>6</sub> alkyl which is substituted  
with Q, which is optionally substituted with one or more  
groups selected from C<sub>3</sub>-C<sub>6</sub> cycloalkyl, -R<sup>3</sup>, -O-Q or Q; C<sub>2</sub>-C<sub>4</sub>  
alkenyl which is substituted with Q, which is optionally  
substituted with one or more groups selected from -OR<sup>2</sup>, -S-Ht,  
-R<sup>3</sup>, -O-Q or Q; C<sub>3</sub>-C<sub>6</sub> cycloalkyl, which is optionally  
substituted with or fused to Q; or C<sub>5</sub>-C<sub>6</sub> cycloalkenyl, which is  
optionally substituted with or fused to Q;

each Q is independently selected from a 3-7 membered  
saturated, partially saturated or unsaturated carbocyclic ring  
system; or a 5-7 membered saturated, partially saturated or  
unsaturated heterocyclic ring containing one or more  
heteroatoms selected from O, N, S, S(O)<sub>n</sub> or N(R<sup>2</sup>); wherein Q  
contains one substituent selected from -OR<sup>2</sup>, -OR<sup>8</sup>,  
-O-arylalkyl, -SR<sup>8</sup>, -S-arylalkyl, -N(R<sup>2</sup>)R<sup>8</sup> [[,]] or  
-N(R<sup>2</sup>)-arylalkyl and may be optionally substituted with one or  
more additional substituents independently selected from oxo,  
-OR<sup>8</sup>, -O-arylalkyl -SR<sup>8</sup>, -S-arylalkyl, -N(R<sup>2</sup>)R<sup>8</sup>, -  
N(R<sup>2</sup>)-arylalkyl, -OR<sup>2</sup>, -R<sup>2</sup>, -SO<sub>2</sub>R<sup>2</sup>, -SO<sub>2</sub>-N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)<sub>2</sub>,  
-N(R<sup>2</sup>)-C(O)-R<sup>2</sup>, -OH, (C<sub>1</sub>-C<sub>4</sub>)-OH, -CN, -CO<sub>2</sub>R<sup>2</sup>, -C(O)-N(R<sup>2</sup>)<sub>2</sub>, halo  
or -CF<sub>3</sub>;

each R<sup>8</sup> is independently selected from Ht, -C<sub>1</sub>-C<sub>15</sub>

branched or straight chain alkyl, alkenyl or alkynyl wherein one to five carbon atoms in said alkyl, alkenyl or alkynyl are independently replaced by W, or wherein one to five carbon atoms in said alkyl, alkenyl or alkynyl are substituted with Ht; and wherein R<sup>8</sup> is additionally and optionally substituted with one or more groups independently selected from -OH, -S(C<sub>1</sub>-C<sub>6</sub> alkyl), -CN, -CF<sub>3</sub>, -N(R<sup>2</sup>)<sub>2</sub>, halo, -C<sub>1</sub>-C<sub>4</sub>-alkyl, -C<sub>1</sub>-C<sub>4</sub>-alkoxy; -Ht; -O-Ht; -NR<sup>2</sup>-CO-N(R<sup>2</sup>)<sub>2</sub>; -CO-N(R<sup>2</sup>)<sub>2</sub>; -R<sup>1</sup>-C<sub>2</sub>-C<sub>6</sub> alkenyl, which is optionally substituted with one or more groups independently selected from hydroxy, C<sub>1</sub>-C<sub>4</sub> alkoxy, Ht, -O-Ht, -NR<sup>2</sup>-CO-N(R<sup>2</sup>)<sub>2</sub> or -CO-N(R<sup>2</sup>)<sub>2</sub>; or R<sup>7</sup>;

wherein W is -O-, -NR<sup>2</sup>-, -S-, -C(O)-, -C(S)-, -C(=NR<sup>2</sup>)-, -S(O)<sub>2</sub>-, -NR<sup>2</sup>-S(O)<sub>2</sub>-, -S(O)<sub>2</sub>-NR<sup>2</sup>-, -NR<sup>2</sup>-C(O)O-, -O-C(O)NR<sup>2</sup>-, -NR<sup>2</sup>-C(O)NR<sup>2</sup>-, -NR<sup>2</sup>-C(S)NR<sup>2</sup>-, -CONR<sup>2</sup>, -NR<sup>2</sup>C(O)-, -C(S)NR<sup>2</sup>, -NR<sup>2</sup>C(S)-, -NR<sup>2</sup>-C(=N-CN)-NR<sup>2</sup>-, -NR<sup>2</sup>C(=N-CN)O- or -C(O)O-;

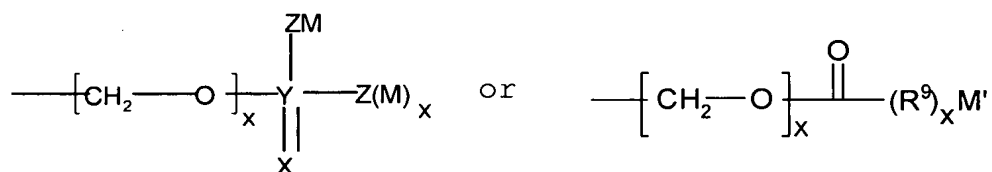
D' is selected from C<sub>1</sub>-C<sub>15</sub> alkyl, C<sub>1</sub>-C<sub>15</sub> alkoxy, C<sub>2</sub>-C<sub>15</sub> alkenyl, C<sub>2</sub>-C<sub>15</sub> alkenyloxy, C<sub>2</sub>-C<sub>15</sub> alkynyl, or C<sub>2</sub>-C<sub>15</sub> alkynyloxy, wherein D' optionally comprises one or more substituents independently selected from Ht, oxo, halo, -CF<sub>3</sub>, -OCF<sub>3</sub>, -NO<sub>2</sub>, azido, -SH, -SR<sup>3</sup>, -N(R<sup>3</sup>)-N(R<sup>3</sup>)<sub>2</sub>, -O-N(R<sup>3</sup>)<sub>2</sub>, -(R<sup>3</sup>)N-O-(R<sup>3</sup>), -N(R<sup>3</sup>)<sub>2</sub>, -CN, -CO<sub>2</sub>R<sup>3</sup>, -C(O)-N(R<sup>3</sup>)<sub>2</sub>, -S(O)<sub>n</sub>-N(R<sup>3</sup>)<sub>2</sub>, -N(R<sup>3</sup>)-C(O)-R<sup>3</sup>, -N(R<sup>3</sup>)-C(O)-N(R<sup>3</sup>)<sub>2</sub>, -C(O)-R<sup>3</sup>, -S(O)<sub>n</sub>-R<sup>3</sup>, -N(R<sup>3</sup>)-S(O)<sub>n</sub>(R<sup>3</sup>), -N(R<sup>3</sup>)-S(O)<sub>n</sub>-N(R<sup>3</sup>)<sub>2</sub>, -S-NR<sup>3</sup>-C(O)R<sup>3</sup>, -C(S)N(R<sup>3</sup>)<sub>2</sub>, -C(S)R<sup>3</sup>, -NR<sup>3</sup>-C(O)OR<sup>3</sup>, -O-C(O)OR<sup>3</sup>, -O-C(O)N(R<sup>3</sup>)<sub>2</sub>, -NR<sup>3</sup>-C(S)R<sup>3</sup>, =N-OH,

$=N-OR^3$ ,  $=N-N(R^3)_2$ ,  $=NR^3$ ,  $=NNR^3C(O)N(R^3)_2$ ,  $=NNR^3C(O)OR^3$ ,  
 $=NNR^3S(O)_n-N(R^3)_2$ ,  $-NR^3-C(S)OR^3$ ,  $-NR^3-C(S)N(R^3)_2$ ,  
 $-NR^3-C[=N(R^3)]-N(R^3)_2$ ,  $-N(R^3)-C[=N-NO_2]-N(R^3)_2$ ,  
 $-N(R^3)-C[=N-NO_2]-OR^3$ ,  $-OC(O)R^3$ ,  $-OC(S)R^3$ ,  $-OC(O)N(R^3)_2$ ,  
 $-C(O)N(R^3)-N(R^3)_2$ ,  $-N(R^3)-N(R^3)C(O)R^3$ ,  $-N(R^3)-OC(O)R^3$ ,  
 $-N(R^3)-OC(O)R^3$ ,  $-N(R^3)-OC(O)R^3$ ,  $-OC(S)N(R^3)_2$ ,  $-OC(S)N(R^3)(R^3)$ , or  
 $-PO_3-R^3$ ;

E is selected from Ht; O-Ht; Ht-Ht; Ht fused with Ht;  $-O-R^3$ ;  $-N(R^2)(R^3)$ ;  $-N(R^2)-Ht$ ;  $C_1-C_6$  alkyl, which is optionally substituted with one or more groups selected from  $R^4$  or Ht;  $C_2-C_6$  alkenyl, which is optionally substituted with one or more groups selected from  $R^4$  or Ht;  $C_3-C_6$  saturated carbocycle, which is optionally substituted with one or more groups selected from  $R^4$  or Ht; or  $C_5-C_6$  unsaturated carbocycle, which is optionally substituted with one or more groups selected from  $R^4$  or Ht;

each  $R^4$  is independently selected from  $-R^2$ ,  $-OR^2$ ,  $-OR^3$ ,  $-SR^2$ ,  $-SOR^2$ ,  $-SO_2R^2$ ,  $-CO_2R^2$ ,  $-OC(O)-R^2$ ,  $-C(O)-N(R^2)_2$ ,  $-C(O)-NR^2(OR^2)$ ,  $-S(O)_2-N(R^2)_2$ , halo,  $-NR^2-C(O)-R^2$ ,  $-NR^2-OR^2$ ,  $-N(R^2)_2$  or  $-CN$ ;

each  $R^7$  is independently selected from hydrogen,



wherein each M is independently selected from H, Li, Na, K, Mg, Ca, Ba,  $-N(R^2)_4$ ,  $C_1$ - $C_{12}$ -alkyl,  $C_2$ - $C_{12}$ -alkenyl, or  $-R^6$ ; wherein 1 to 4  $-CH_2$  radicals of the alkyl or alkenyl group, other than the  $-CH_2$  that is bound to Z, is optionally replaced by a heteroatom group selected from O, S,  $S(O)$ ,  $S(O_2)$ , or  $N(R^2)$ ; and wherein any hydrogen in said alkyl, alkenyl or  $R^6$  is optionally replaced with a substituent selected from oxo,  $-C_1$ - $C_4$  alkyl,  $-N(R^2)_2$ ,  $-N(R^2)_3$ ,  $-OH$ ,  $-O-(C_1-C_4$  alkyl),  $-CN$ ,  $-C(O)OR^2$ ,  $-C(O)-N(R^2)_2$ ,  $S(O)_2-N(R^2)_2$ ,  $-N(R^2)-C(O)-R_2$ ,  $C(O)R^2$ ,  $-S(O)_n-R^2$ ,  $-OCF_3$ ,  $-S(O)_n-R^6$ ,  $-N(R^2)-S(O)_2(R^2)$ , halo,  $-CF_3$ , or  $-NO_2$ ;

M' is H,  $C_1$ - $C_{12}$ -alkyl,  $C_2$ - $C_{12}$ -alkenyl, or  $-R^6$ ; wherein 1 to 4  $-CH_2$  radicals of the alkyl or alkenyl group is optionally replaced by a heteroatom group selected from O, S,  $S(O)$ ,  $S(O_2)$ , or  $N(R^2)$ ; and wherein any hydrogen in said alkyl, alkenyl or  $R^6$  is optionally replaced with a substituent selected from oxo,  $-OR^2$ ,  $-C_1$ - $C_4$  alkyl,  $-N(R^2)_2$ ,  $N(R^2)_3$ ,  $-OH$ ,  $-O-(C_1-C_4$  alkyl),  $-CN$ ,  $-C(O)OR^2$ ,  $-C(O)-N(R^2)_2$ ,  $-S(O)_2-N(R^2)_2$ ,  $-N(R^2)-C(O)-R_2$ ,  $-C(O)R^2$ ,  $-S(O)_n-R^2$ ,  $-OCF_3$ ,  $-S(O)_n-R^6$ ,  $-N(R^2)-S(O)_2(R^2)$ , halo,  $-CF_3$ , or  $-NO_2$ ;

x is 0 or 1;

Z is O, S,  $N(R^2)_2$ , or, when M is not present, H;

Y is P or S;

X is O or S; and

$R^9$  is  $C(R^2)_2$ , O or  $N(R^2)$ ; and wherein when Y is S, Z is not S; and

$R^6$  is a 5-6 membered saturated, partially saturated or unsaturated carbocyclic or heterocyclic ring system, or an 8-10 membered saturated, partially saturated or unsaturated bicyclic ring system; wherein any of said heterocyclic ring systems contains one or more heteroatoms selected from O, N, S,  $S(O)_n$  or  $N(R^2)$ ; and wherein any of said ring systems optionally contains 1 to 4 substituents independently selected from -OH,  $-C_1-C_4$  alkyl,  $-O-(C_1-C_4 \text{ alkyl})$  or  $-O-C(O)-(C_1-C_4 \text{ alkyl})$ .

2. (Original) The compound according to claim 1, wherein  $R^8$  is  $-C_1-C_4$ -branched or straight chain alkyl, wherein one to two carbon atoms in said alkyl are independently replaced by W, wherein  $R^8$  is additionally and optionally substituted with one or more groups independently selected from -OH;  $-C_1-C_4$ -alkoxy; -Ht;  $-O-Ht$ ;  $-NR^2-CO-N(R^2)_2$ ;  $-CO-N(R^2)_2$ ;  $-R^1-C_2-C_6$  alkenyl, which is optionally substituted with one or more groups independently selected from hydroxy,  $C_1-C_4$  alkoxy, Ht,  $-O-Ht$ ,  $-NR^2-CO-N(R^2)_2$  or  $-CO-N(R^2)_2$ ; or  $R^7$ ;

wherein W is  $-O-$ ,  $-NR^2-$ ,  $-NR^2-S(O)_2-$ ,  $-NR^2-C(O)O-$ ,  $-O-C(O)NR^2-$ ,  $-NR^2-C(O)NR^2-$ ,  $-NR^2-C(S)NR^2-$ ,  $-NR^2C(O)-$ ,  $-C(=NR^2)-$ ,  $-C(O)NR^2-$ ,  $-NR^2-C(=N-CN)-NR^2-$ ,  $-NR^2C(=N-CN)O-$  or  $-C(O)O-$ ; and



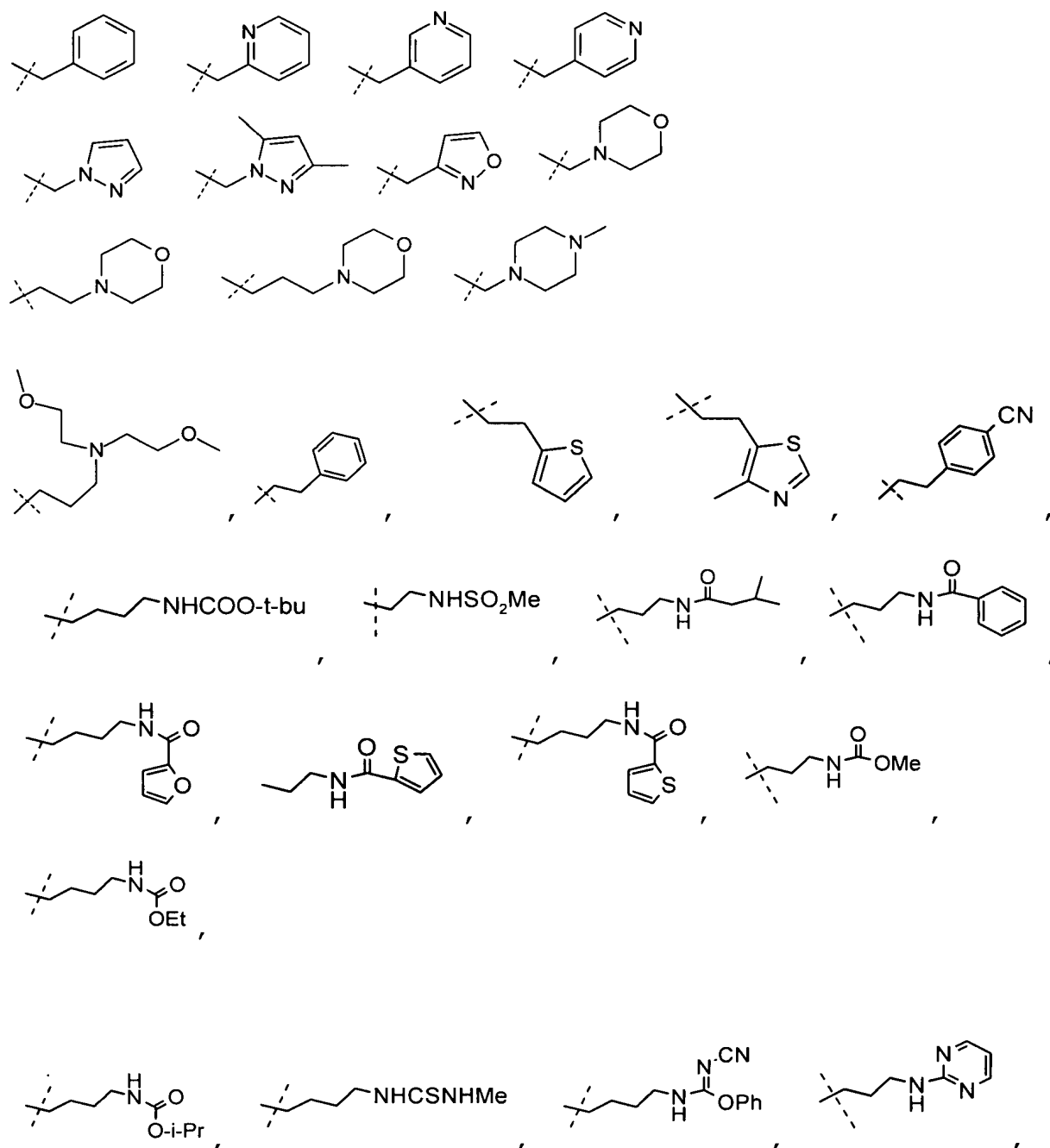
wherein Ht, R<sup>1</sup>, R<sup>2</sup> and R<sup>7</sup> are as defined in claim 1.

3. (Previously presented) The compound according to claim 1, wherein R<sup>8</sup> is a -C<sub>1</sub>-C<sub>4</sub>-branched or straight alkyl chain, wherein one to two carbon atoms are substituted with Ht;

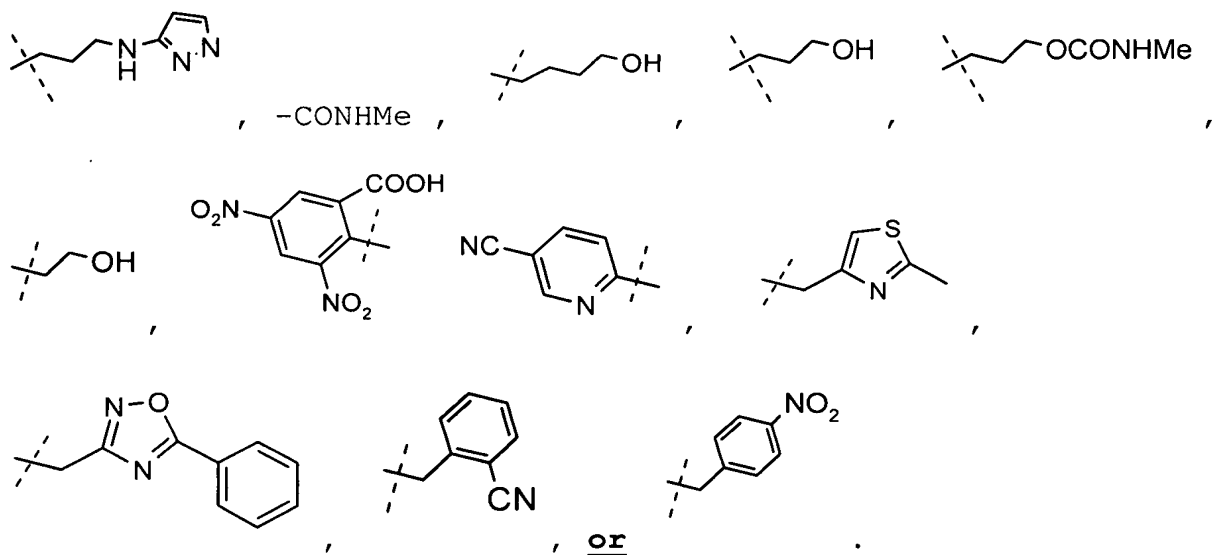
wherein Ht is C<sub>6-14</sub> aryl or a 5-7 membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, N(R<sup>2</sup>), O, S and S(O)<sub>n</sub>, wherein any member of Ht is optionally substituted with one or more substituents independently selected from oxo, -OR<sup>2</sup>, SR<sup>2</sup>, -R<sup>2</sup>, -N(R<sup>2</sup>)(R<sup>2</sup>), -R<sup>2</sup>-OH, -CN, -CO<sub>2</sub>R<sup>2</sup>, -C(O)-N(R<sup>2</sup>)<sub>2</sub>, -S(O)<sub>2</sub>-N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)-C(O)-R<sup>2</sup>, -N(R<sup>2</sup>)-C(O)O-R<sup>2</sup>, -C(O)-R<sup>2</sup>, -S(O)<sub>n</sub>-R<sup>2</sup>, -OCF<sub>3</sub>, -S(O)<sub>n</sub>-Q, methylenedioxy, -N(R<sup>2</sup>)-S(O)<sub>2</sub>(R<sup>2</sup>), halo, -CF<sub>3</sub>, -NO<sub>2</sub>, Q, -OQ, -OR<sup>7</sup>, -SR<sup>7</sup>, -R<sup>7</sup>, -N(R<sup>2</sup>)(R<sup>7</sup>) or -N(R<sup>7</sup>)<sub>2</sub>.

4. (Currently amended) The compound according to claim 1, wherein R<sup>8</sup> is selected from:

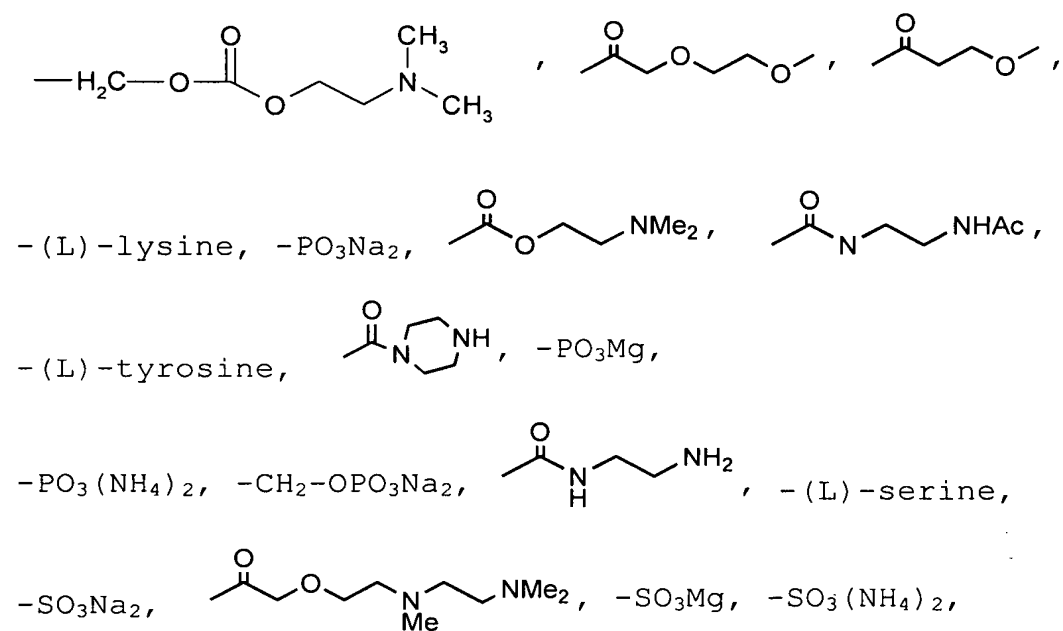
Appln. No. 10/691,333  
Reply dated November 14, 2007  
In response to May 14, 2007 Office Action



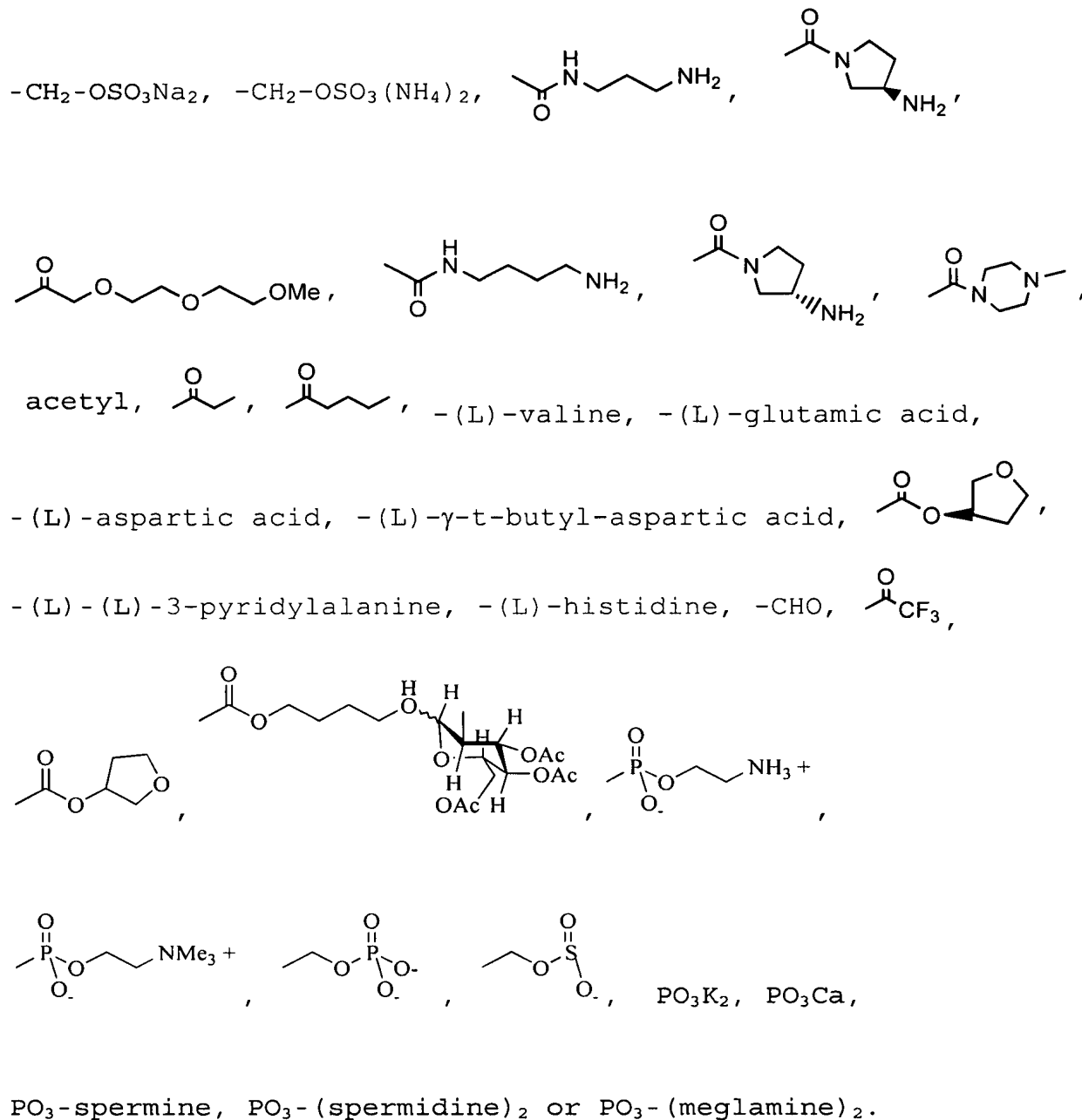
Appln. No. 10/691,333  
 Reply dated November 14, 2007  
 In response to May 14, 2007 Office Action



5. (Original) The compound according to claim 1,  
 wherein at least one R<sup>7</sup> is selected from:



Appln. No. 10/691,333  
 Reply dated November 14, 2007  
 In response to May 14, 2007 Office Action

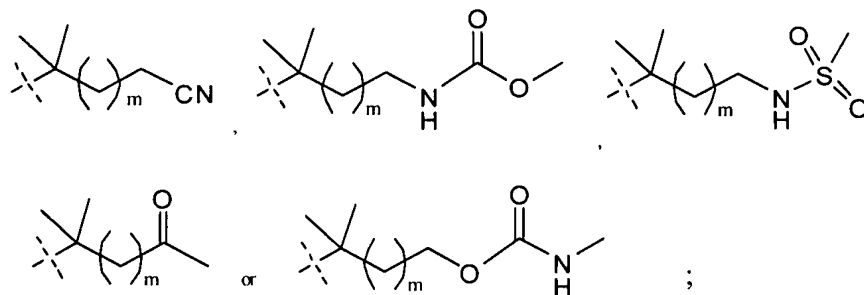


6. (Canceled).

7. (Previously presented) The compound according to claim 1, wherein:

D' is  $-\text{CH}_2-\text{R}'$ , wherein R' is selected from:

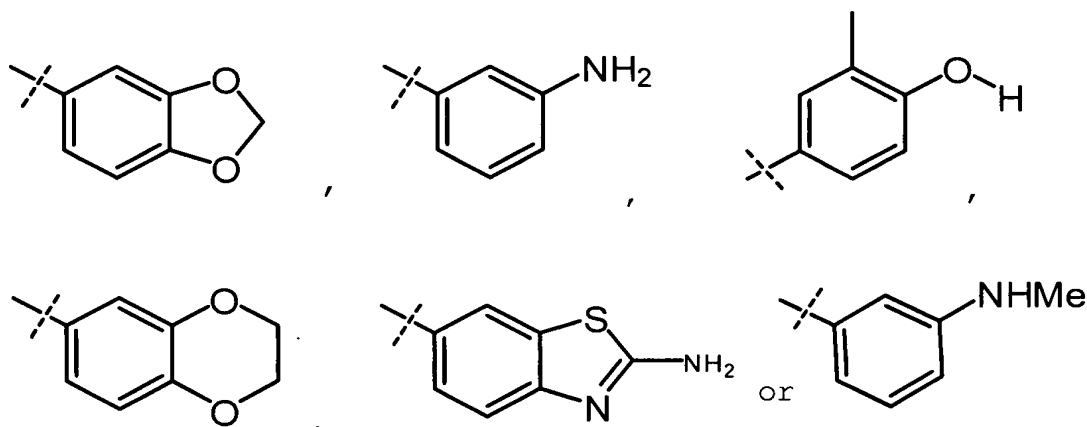
isobutyl,;



wherein m is 0 to 3.

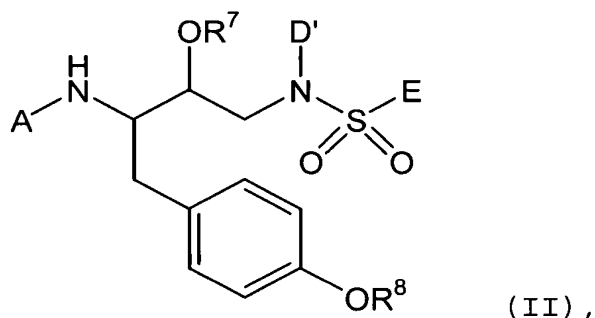
8. (Previously presented) The compound according to claim 1, wherein:

E is selected from:



9. (Currently amended) A compound having the

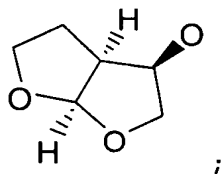
formula (II):



and pharmaceutically acceptable salts thereof;

wherein:

A is selected from R'-C(O)-, wherein R' is



each R<sup>1</sup> is independently selected from -C(O)-, -S(O)<sub>2</sub>-, -C(O)-C(O)-, -O-C(O)-, -O-S(O)<sub>2</sub>-, -NR<sup>2</sup>-, -NR<sup>2</sup>-S(O)<sub>2</sub>-, -NR<sup>2</sup>-C(O)- or -NR<sup>2</sup>-C(O)-C(O)-;

each Ht is independently selected from C<sub>3</sub>-C<sub>7</sub> cycloalkyl; C<sub>5</sub>-C<sub>7</sub> cycloalkenyl; C<sub>6</sub>-C<sub>14</sub> aryl; or a 5-7 membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, N(R<sup>2</sup>), O, S and S(O)<sub>n</sub>; wherein said aryl or said heterocycle is optionally fused to Q; and wherein any member of said Ht is optionally substituted with one or more substituents independently selected from oxo, -OR<sup>2</sup>,

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$SR^2$ ,  $-R^2$ ,  $-N(R^2)(R^2)$ ,  $-R^2-OH$ ,  $-CN$ ,  $-CO_2R^2$ ,  $-C(O)-N(R^2)_2$ ,  
 $-S(O)_2-N(R^2)_2$ ,  $-N(R^2)-C(O)-R^2$ ,  $-N(R^2)-C(O)O-R^2$ ,  $-C(O)-R^2$ ,  
 $-S(O)_n-R^2$ ,  $-OCF_3$ ,  $-S(O)_n-Q$ , methylenedioxy,  $-N(R^2)-S(O)_2(R^2)$ ,  
halo,  $-CF_3$ ,  $-NO_2$ ,  $Q$ ,  $-OQ$ ,  $-OR^7$ ,  $-SR^7$ ,  $-R^7$ ,  $-N(R^2)(R^7)$  or  $-N(R^7)_2$ ;

each  $R^2$  is independently selected from H, or  $C_1-C_4$  alkyl optionally substituted with a 3-7 membered saturated, partially saturated or unsaturated carbocyclic ring system; or a 5-7 membered saturated, partially saturated or unsaturated heterocyclic ring containing one or more heteroatoms selected from O, N, S,  $S(O)_n$  or  $N(R^{33})$ ; wherein any of said ring systems or  $N(R^{33})$  is optionally substituted with 1 to 4 substituents independently selected from  $-X'-Y'$ ,  $-O$ -arylalkyl,  $-S$ -arylalkyl,  $-N(Y')_2$ ,  $-N(H)$ -arylalkyl,  $-N(C_1-C_4$  alkyl)-arylalkyl, oxo,  $-O-(C_1-C_4$  alkyl), OH,  $C_1-C_4$  alkyl,  $-SO_2H$ ,  $-SO_2-(C_1-C_4$  alkyl),  $-SO_2-NH_2$ ,  $-SO_2-NH(C_1-C_4$  alkyl),  $-SO_2-N(C_1-C_4$  alkyl) $_2$ ,  $-NH_2$ ,  $-NH(C_1-C_4$  alkyl),  $-N(C_1-C_4$  alkyl) $_2$ ,  $-NH-C(O)H$ ,  $-N(C_1-C_4$  alkyl)- $C(O)H$ ,  $-NH-C(O)-C_1-C_4$  alkyl,  $-C_1-C_4$  alkyl-OH,  $-OH$ ,  $-CN$ ,  $-C(O)OH$ ,  $-C(O)O-C_1-C_4$  alkyl,  $-C(O)-NH_2$ ,  $-C(O)-NH(C_1-C_4$  alkyl),  $-C(O)-N(C_1-C_4$  alkyl) $_2$ , halo or  $-CF_3$ ;

$X'$  is  $-O-$ ,  $-S-$ ,  $-NH-$ ,  $-NHC(O)-$ ,  $-NHC(O)O-$ ,  $-NHSO_2-$ , or  $-N(C_1-C_4)$ alkyl-;

$Y'$  is  $C_1-C_{15}$  alkyl,  $C_2-C_{15}$  alkenyl or alkynyl, wherein one to five carbon atoms in Y are optionally substituted with  $C_3-C_7$  cycloalkyl or  $C_5-C_6$  cycloalkenyl,  $C_6-C_{14}$  aryl or a 5-7

membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, NH, O, S and S(O)<sub>n</sub>;

each R<sup>3</sup> is independently selected from H, Ht, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl or C<sub>5</sub>-C<sub>6</sub> cycloalkenyl; wherein any member of said R<sup>3</sup>, except H, is optionally substituted with one or more substituents selected from -OR<sup>2</sup>, -C(O)-N(R<sup>2</sup>)<sub>2</sub>, -S(O)<sub>n</sub>-N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)-C(O)O(R<sup>2</sup>), -N(R<sup>2</sup>)-C(O)N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)-C(O)-R<sup>2</sup>, Ht, -CN, -SR<sup>2</sup>, -C(O)OR<sup>2</sup>, N(R<sup>2</sup>)-C(O)-R<sup>2</sup>;

each R<sup>33</sup> is selected from H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl or C<sub>5</sub>-C<sub>6</sub> cycloalkenyl, C<sub>6</sub>-C<sub>14</sub> aryl or a 5-7 membered saturated or unsaturated heterocycle, containing one or more heteroatoms selected from N, NH, O, S and S(O)<sub>n</sub>;

each n is independently 1 or 2;

each Q is independently selected from a 3-7 membered saturated, partially saturated or unsaturated carbocyclic ring system; or a 5-7 membered saturated, partially saturated or unsaturated heterocyclic ring containing one or more heteroatoms selected from O, N, S, S(O)<sub>n</sub> or N(R<sup>2</sup>); wherein Q contains one substituent selected from -OR<sup>2</sup>, -OR<sup>8</sup>, -O-arylalkyl, -SR<sup>8</sup>, -S-arylalkyl, -N(R<sup>2</sup>)R<sup>8</sup> [[,]] or -N(R<sup>2</sup>)-arylalkyl and may be optionally substituted with one or more additional substituents independently selected from oxo,



-OR<sup>8</sup>, -O-arylalkyl -SR<sup>8</sup>, -S-arylalkyl, -N(R<sup>2</sup>)R<sup>8</sup>, -  
N(R<sup>2</sup>)-arylalkyl, -OR<sup>2</sup>, -R<sup>2</sup>, -SO<sub>2</sub>R<sup>2</sup>, -SO<sub>2</sub>-N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)<sub>2</sub>,  
-N(R<sup>2</sup>)-C(O)-R<sup>2</sup>, -OH, (C<sub>1</sub>-C<sub>4</sub>)-OH, -CN, -CO<sub>2</sub>R<sup>2</sup>, -C(O)-N(R<sup>2</sup>)<sub>2</sub>, halo  
or -CF<sub>3</sub>;

each R<sup>8</sup> is independently selected from Ht, -C<sub>1</sub>-C<sub>15</sub>  
branched or straight chain alkyl, alkenyl or alkynyl wherein  
one to five carbon atoms in said alkyl, alkenyl or alkynyl are  
independently replaced by W, or wherein one to five carbon  
atoms in said alkyl, alkenyl or alkynyl are substituted with  
Ht; and wherein R<sup>8</sup> is additionally and optionally substituted  
with one or more groups independently selected from -OH, -S(C<sub>1</sub>-  
C<sub>6</sub> alkyl), -CN, -CF<sub>3</sub>, -N(R<sup>2</sup>)<sub>2</sub>, halo, -C<sub>1</sub>-C<sub>4</sub>-alkyl, -C<sub>1</sub>-C<sub>4</sub>-alkoxy;  
-Ht; -O-Ht; -NR<sup>2</sup>-CO-N(R<sup>2</sup>)<sub>2</sub>; -CO-N(R<sup>2</sup>)<sub>2</sub>; -R<sup>1</sup>-C<sub>2</sub>-C<sub>6</sub> alkenyl, which  
is optionally substituted with one or more groups  
independently selected from hydroxy, C<sub>1</sub>-C<sub>4</sub> alkoxy, Ht, -O-Ht,  
-NR<sup>2</sup>-CO-N(R<sup>2</sup>)<sub>2</sub> or -CO-N(R<sup>2</sup>)<sub>2</sub>; or R<sup>7</sup>;

wherein W is -O-, -NR<sup>2</sup>-, -S-, -C(O)-, -C(S)-, -C(=NR<sup>2</sup>)-,  
-S(O)<sub>2</sub>-, -NR<sup>2</sup>-S(O)<sub>2</sub>-, -S(O)<sub>2</sub>-NR<sup>2</sup>-, -NR<sup>2</sup>-C(O)O-, -O-C(O)NR<sup>2</sup>-, -NR<sup>2</sup>-  
C(O)NR<sup>2</sup>-, -NR<sup>2</sup>-C(S)NR<sup>2</sup>-, -CONR<sup>2</sup>, -NR<sup>2</sup>C(O)-, -C(S)NR<sup>2</sup>, -NR<sup>2</sup>C(S)-,  
-NR<sup>2</sup>-C(=N-CN)-NR<sup>2</sup>-, -NR<sup>2</sup>C(=N-CN)O- or -C(O)O-;

D' is selected from C<sub>1</sub>-C<sub>15</sub> alkyl, C<sub>1</sub>-C<sub>15</sub> alkoxy, C<sub>2</sub>-C<sub>15</sub>  
alkenyl, C<sub>2</sub>-C<sub>15</sub> alkenyloxy, C<sub>2</sub>-C<sub>15</sub> alkynyl, or C<sub>2</sub>-C<sub>15</sub> alkynyloxy,  
wherein D' optionally comprises one or more substituents  
independently selected from Ht, oxo, halo, -CF<sub>3</sub>, -OCF<sub>3</sub>, -NO<sub>2</sub>,

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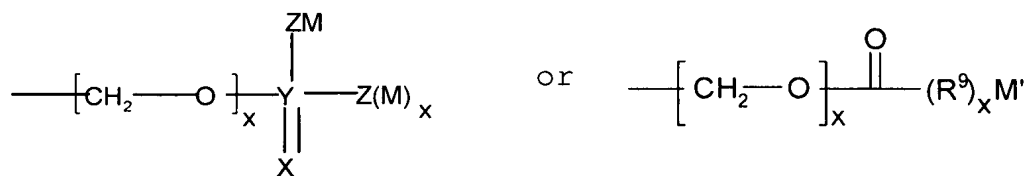
azido, -SH, -SR<sup>3</sup>, -N(R<sup>3</sup>)-N(R<sup>3</sup>)<sub>2</sub>, -O-N(R<sup>3</sup>)<sub>2</sub>, -(R<sup>3</sup>)N-O-(R<sup>3</sup>),  
-N(R<sup>3</sup>)<sub>2</sub>, -CN, -CO<sub>2</sub>R<sup>3</sup>, -C(O)-N(R<sup>3</sup>)<sub>2</sub>, -S(O)<sub>n</sub>-N(R<sup>3</sup>)<sub>2</sub>, -N(R<sup>3</sup>)-C(O)-R<sup>3</sup>,  
-N(R<sup>3</sup>)-C(O)-N(R<sup>3</sup>)<sub>2</sub>, -C(O)-R<sup>3</sup>, -S(O)<sub>n</sub>-R<sup>3</sup>, -N(R<sup>3</sup>)-S(O)<sub>n</sub>(R<sup>3</sup>),  
-N(R<sup>3</sup>)-S(O)<sub>n</sub>-N(R<sup>3</sup>)<sub>2</sub>, -S-NR<sup>3</sup>-C(O)R<sup>3</sup>, -C(S)N(R<sup>3</sup>)<sub>2</sub>, -C(S)R<sup>3</sup>,  
-NR<sup>3</sup>-C(O)OR<sup>3</sup>, -O-C(O)OR<sup>3</sup>, -O-C(O)N(R<sup>3</sup>)<sub>2</sub>, -NR<sup>3</sup>-C(S)R<sup>3</sup>, =N-OH,  
=N-OR<sup>3</sup>, =N-N(R<sup>3</sup>)<sub>2</sub>, =NR<sup>3</sup>, =NNR<sup>3</sup>C(O)N(R<sup>3</sup>)<sub>2</sub>, =NNR<sup>3</sup>C(O)OR<sup>3</sup>,  
=NNR<sup>3</sup>S(O)<sub>n</sub>-N(R<sup>3</sup>)<sub>2</sub>, -NR<sup>3</sup>-C(S)OR<sup>3</sup>, -NR<sup>3</sup>-C(S)N(R<sup>3</sup>)<sub>2</sub>,  
-NR<sup>3</sup>-C[=N(R<sup>3</sup>)]-N(R<sup>3</sup>)<sub>2</sub>, -N(R<sup>3</sup>)-C[=N-NO<sub>2</sub>]-N(R<sup>3</sup>)<sub>2</sub>,  
-N(R<sup>3</sup>)-C[=N-NO<sub>2</sub>]-OR<sup>3</sup>, -OC(O)R<sup>3</sup>, -OC(S)R<sup>3</sup>, -OC(O)N(R<sup>3</sup>)<sub>2</sub>,  
-C(O)N(R<sup>3</sup>)-N(R<sup>3</sup>)<sub>2</sub>, -N(R<sup>3</sup>)-N(R<sup>3</sup>)C(O)R<sup>3</sup>, -N(R<sup>3</sup>)-OC(O)R<sup>3</sup>,  
-N(R<sup>3</sup>)-OC(O)R<sup>3</sup>, -N(R<sup>3</sup>)-OC(O)R<sup>3</sup>, -OC(S)N(R<sup>3</sup>)<sub>2</sub>, -OC(S)N(R<sup>3</sup>)(R<sup>3</sup>), or  
-PO<sub>3</sub>-R<sup>3</sup>;

E is selected from Ht; O-Ht; Ht-Ht; Ht fused with  
Ht; -O-R<sup>3</sup>; -N(R<sup>2</sup>)(R<sup>3</sup>); -N(R<sup>2</sup>)-Ht; C<sub>1</sub>-C<sub>6</sub> alkyl, which is  
optionally substituted with one or more groups selected from R<sup>4</sup>  
or Ht; C<sub>2</sub>-C<sub>6</sub> alkenyl, which is optionally substituted with one  
or more groups selected from R<sup>4</sup> or Ht; C<sub>3</sub>-C<sub>6</sub> saturated  
carbocycle, which is optionally substituted with one or more  
groups selected from R<sup>4</sup> or Ht; or C<sub>5</sub>-C<sub>6</sub> unsaturated carbocycle,  
which is optionally substituted with one or more groups  
selected from R<sup>4</sup> or Ht;

each R<sup>4</sup> is independently selected from -R<sup>2</sup>, -OR<sup>2</sup>,  
-OR<sup>3</sup>, -SR<sup>2</sup>, -SOR<sup>2</sup>, -SO<sub>2</sub>R<sup>2</sup>, -CO<sub>2</sub>R<sup>2</sup>, -OC(O)-R<sup>2</sup>, -C(O)-N(R<sup>2</sup>)<sub>2</sub>,  
-C(O)-NR<sup>2</sup>(OR<sup>2</sup>), -S(O)<sub>2</sub>-N(R<sup>2</sup>)<sub>2</sub>, halo, -NR<sup>2</sup>-C(O)-R<sup>2</sup>, -NR<sup>2</sup>-OR<sup>2</sup>,

$-N(R^2)_2$  or  $-CN$ ;

each  $R^7$  is independently selected from hydrogen,



wherein each M is independently selected

from H, Li, Na, K, Mg, Ca, Ba,  $-N(R^2)_4$ ,  $C_1$ - $C_{12}$ -alkyl,  $C_2$ - $C_{12}$ -alkenyl, or  $-R^6$ ; wherein 1 to 4  $-\text{CH}_2$  radicals of the alkyl or alkenyl group, other than the  $-\text{CH}_2$  that is bound to Z, is optionally replaced by a heteroatom group selected from O, S,  $\text{S(O)}$ ,  $\text{S(O)}_2$ , or  $\text{N(R}^2\text{)}$ ; and wherein any hydrogen in said alkyl, alkenyl or  $R^6$  is optionally replaced with a substituent selected from oxo,  $-C_1$ - $C_4$  alkyl,  $-N(R^2)_2$ ,  $-N(R^2)_3$ ,  $-\text{OH}$ ,  $-\text{O}-(C_1-C_4 \text{ alkyl})$ ,  $-\text{CN}$ ,  $-\text{C(O)OR}^2$ ,  $-\text{C(O)-N(R}^2\text{)}_2$ ,  $\text{S(O)}_2\text{-N(R}^2\text{)}_2$ ,  $-N(R^2)\text{-C(O)-R}_2$ ,  $\text{C(O)R}^2$ ,  $-\text{S(O)}_n\text{-R}^2$ ,  $-\text{OCF}_3$ ,  $-\text{S(O)}_n\text{-R}^6$ ,  $-N(R^2)\text{-S(O)}_2\text{(R}^2\text{)}$ , halo,  $-\text{CF}_3$ , or  $-\text{NO}_2$ ;

$M'$  is H,  $C_1$ - $C_{12}$ -alkyl,  $C_2$ - $C_{12}$ -alkenyl, or  $-R^6$ ; wherein 1 to 4  $-\text{CH}_2$  radicals of the alkyl or alkenyl group is optionally replaced by a heteroatom group selected from O, S,  $\text{S(O)}$ ,  $\text{S(O)}_2$ , or  $\text{N(R}^2\text{)}$ ; and wherein any hydrogen in said alkyl, alkenyl or  $R^6$  is optionally replaced with a substituent selected from oxo,  $-\text{OR}^2$ ,  $-C_1$ - $C_4$  alkyl,  $-N(R^2)_2$ ,  $\text{N(R}^2\text{)}_3$ ,  $-\text{OH}$ ,  $-\text{O}-(C_1-C_4 \text{ alkyl})$ ,  $-\text{CN}$ ,  $-\text{C(O)OR}^2$ ,  $-\text{C(O)-N(R}^2\text{)}_2$ ,  $-\text{S(O)}_2\text{-N(R}^2\text{)}_2$ ,

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$-N(R^2)-C(O)-R_2$ ,  $-C(O)R^2$ ,  $-S(O)_n-R^2$ ,  $-OCF_3$ ,  $-S(O)_n-R^6$ ,

$-N(R^2)-S(O)_2(R^2)$ , halo,  $-CF_3$ , or  $-NO_2$ ;

x is 0 or 1;

Z is O, S,  $N(R^2)_2$ , or, when M is not present, H;

Y is P or S;

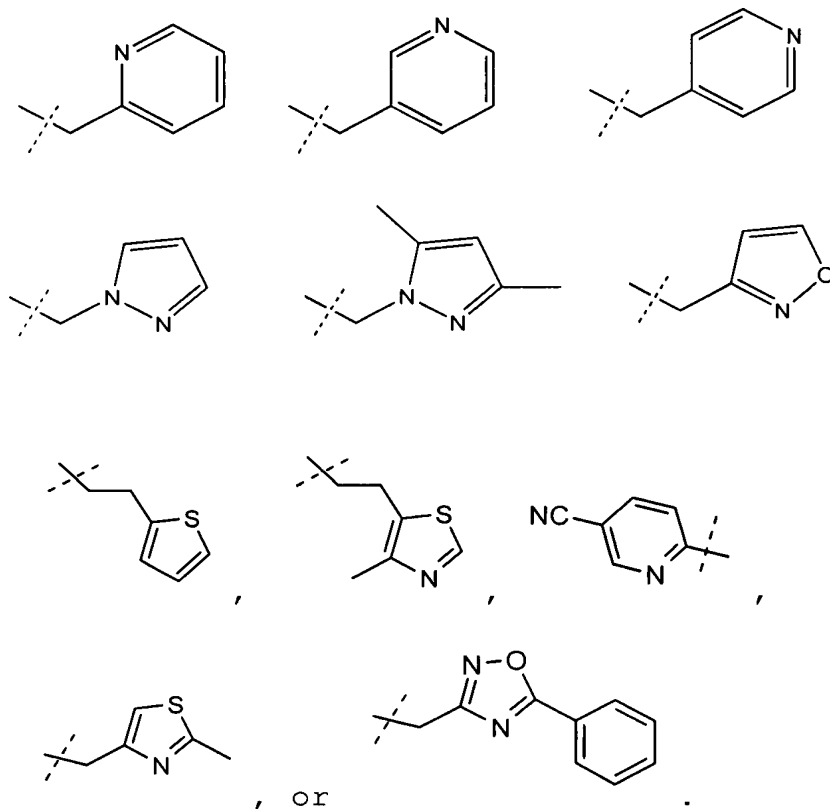
X is O or S; and

$R^9$  is  $C(R^2)_2$ , O or  $N(R^2)$ ; and wherein when Y is S, Z is not S; and

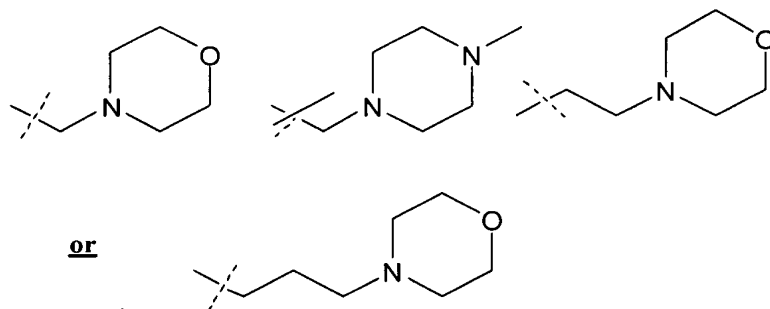
$R^6$  is a 5-6 membered saturated, partially saturated or unsaturated carbocyclic or heterocyclic ring system, or an 8-10 membered saturated, partially saturated or unsaturated bicyclic ring system; wherein any of said heterocyclic ring systems contains one or more heteroatoms selected from O, N, S,  $S(O)_n$  or  $N(R^2)$ ; and wherein any of said ring systems optionally contains 1 to 4 substituents independently selected from  $-OH$ ,  $-C_1-C_4$  alkyl,  $-O-(C_1-C_4$  alkyl) or  $-O-C(O)-(C_1-C_4$  alkyl).

10. (Original) The compound according to claim 9, wherein  $R^8$  is selected from:

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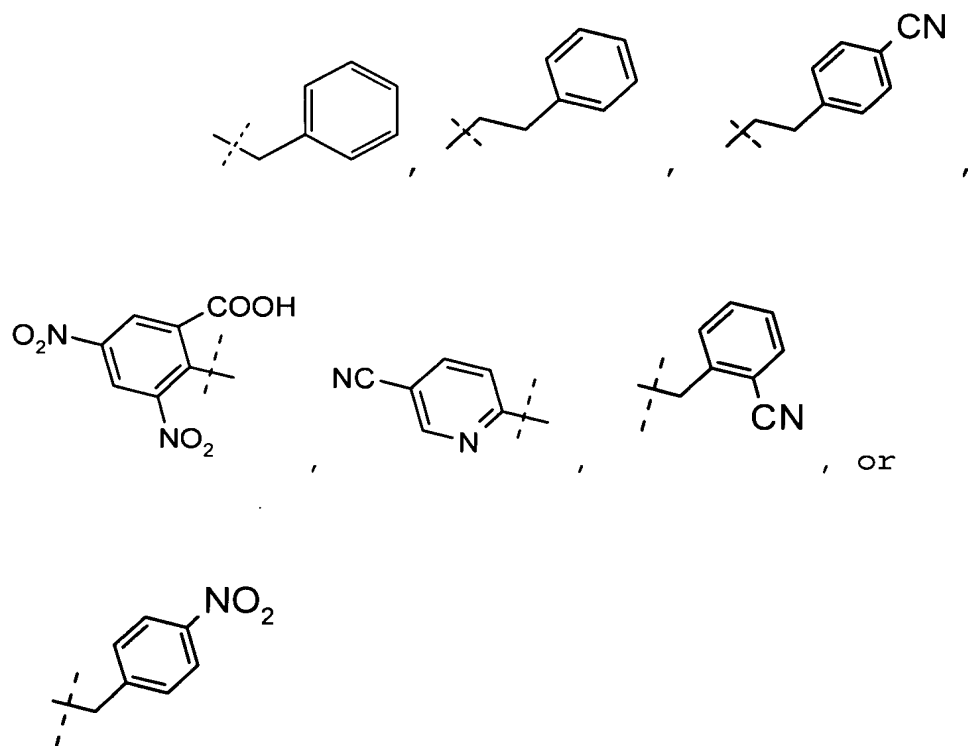
11. (Currently amended) The compound according to claim 9, wherein  $R^8$  is selected from:



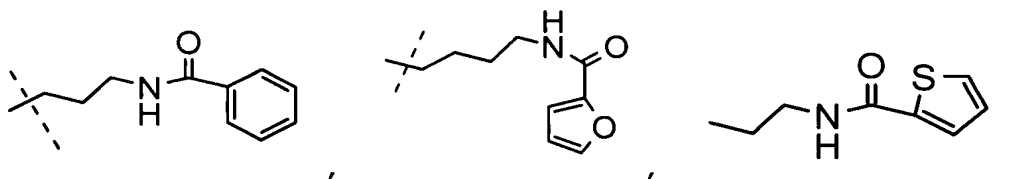
12. (Original) The compound according to claim 9,

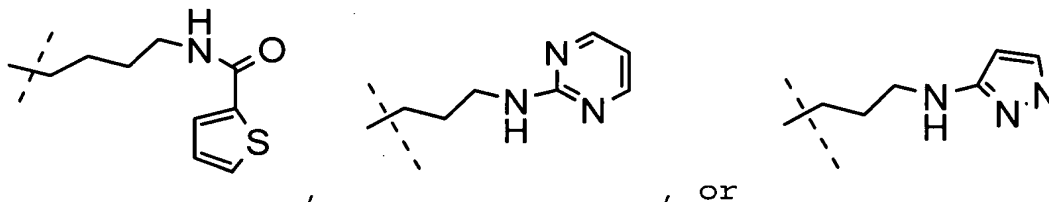
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wherein  $R^8$  is selected from:

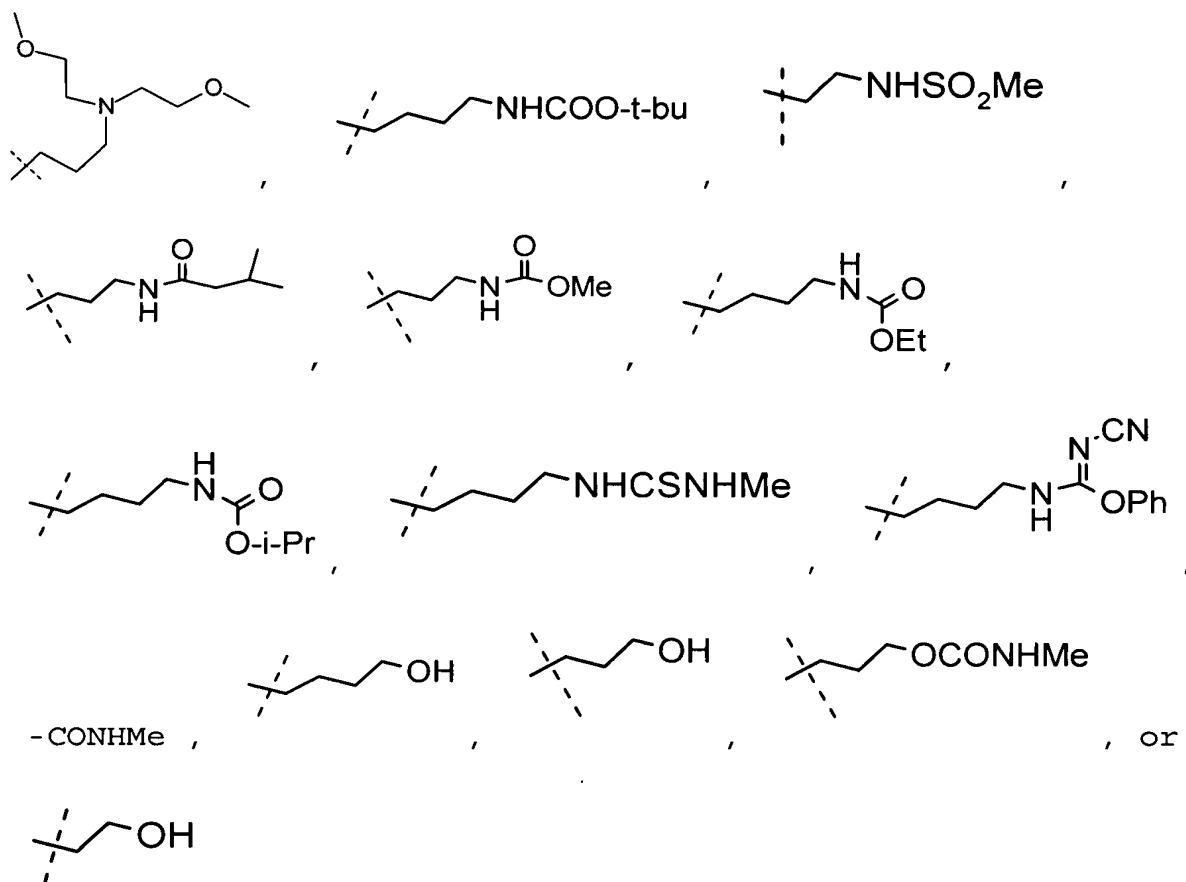


13. (Original) The compound according to claim 9,  
wherein R<sup>8</sup> is selected from:

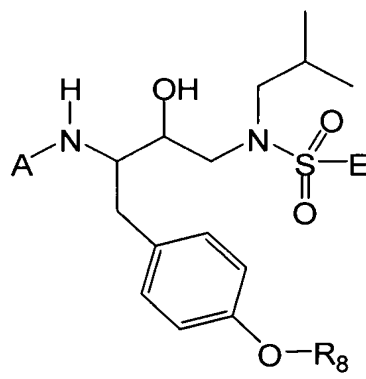




14. (Previously presented) The compound according to claim 9, wherein R<sup>8</sup> is selected from:

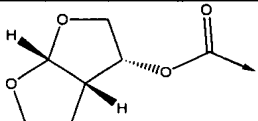
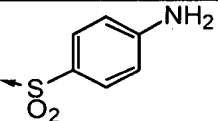
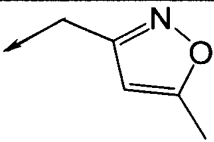
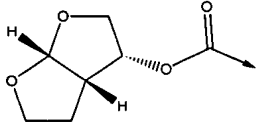
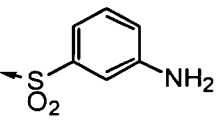
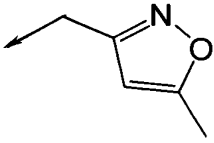
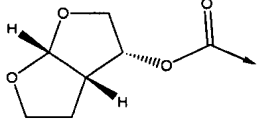
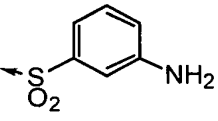
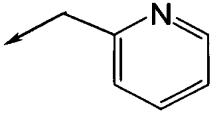
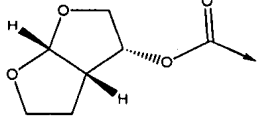
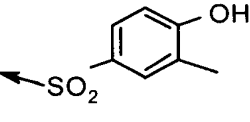
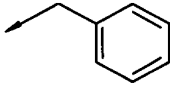
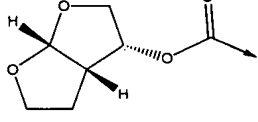
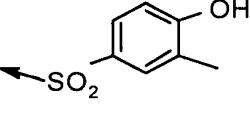
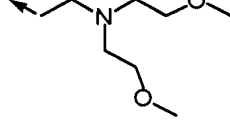
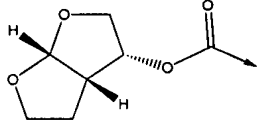
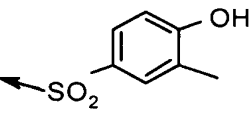
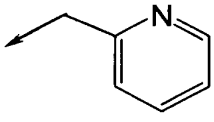
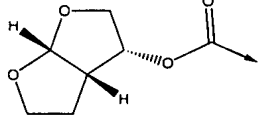
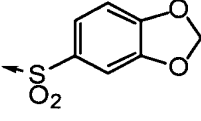
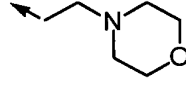
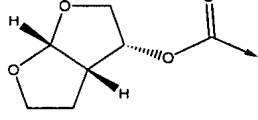
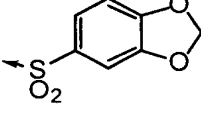
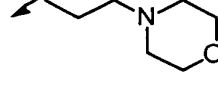


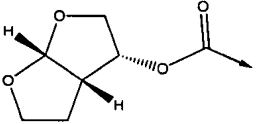
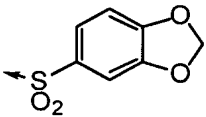
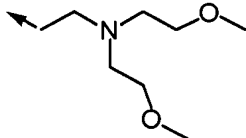
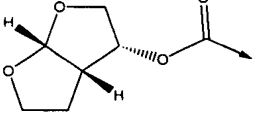
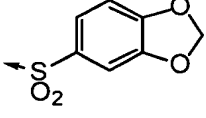
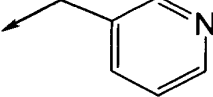
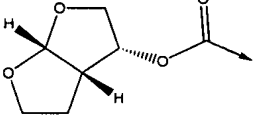
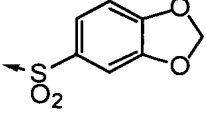
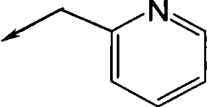
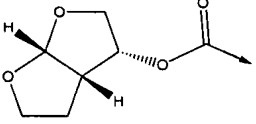
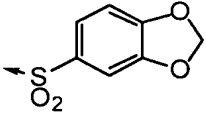
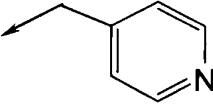
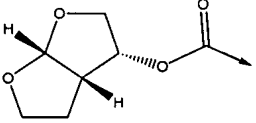
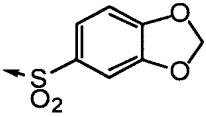
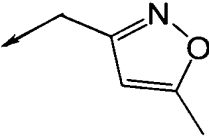
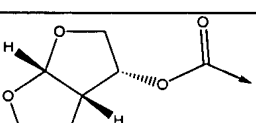
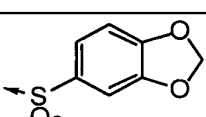
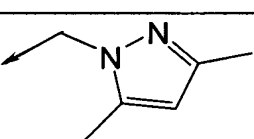
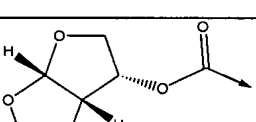
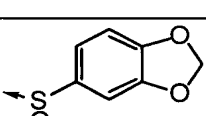
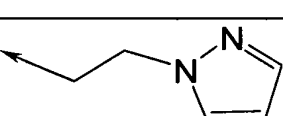
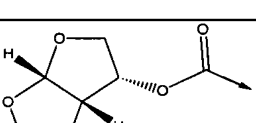
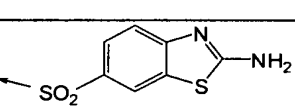
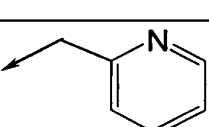
15. (Currently amended) The compound according to claim 9, wherein said compound is selected from compound numbers: 26, 27, 31, 33, 35, 36, 38, 41, 43, 48, 49, 51, 52, 53, 54, 55, 56, 57, 59, 60, 71, 72, 73, 74, 202, 203, 209, 213, 215, 223, 227, 231, 233, 236, 237, 239, 243, 247, 250, 260, 263, 271, 281, 289, 293, 295, 309, 317, 319, 320, 322, 334, 335, 348, 364, 367, 368, 375, 382, 383 and 396, wherein said compound numbers are as defined below: [[]]



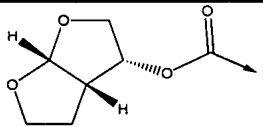
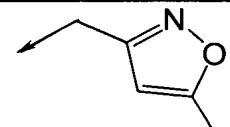
	A	S(O) <sub>2</sub> E	R <sup>8</sup>
26			
27			
31			

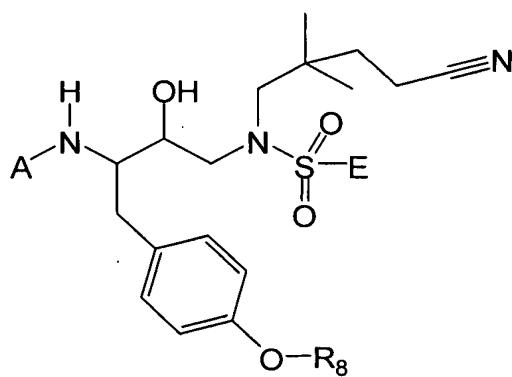


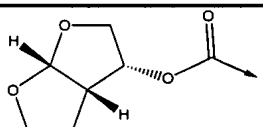
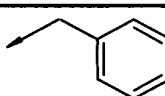
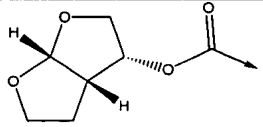
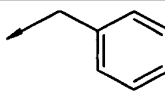
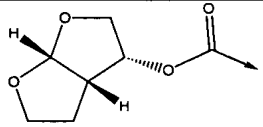
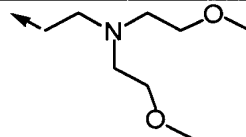
A	$S(O)_2E$	$R^8$
33 		
35 		
36 		
38 		
41 		
43 		
48 		
49 		

A	S(O) <sub>2</sub> E	R <sup>8</sup>
51 		
52 		
53 		
54 		
55 		
56 		
57 		
59 		

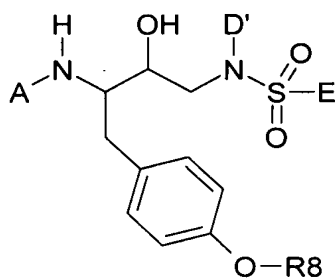
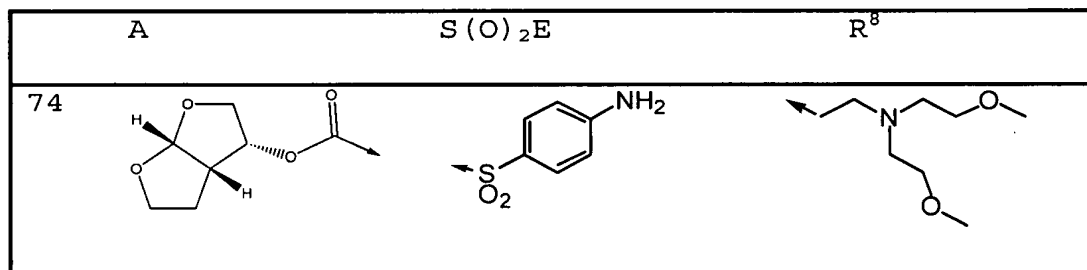
Appln. No. 10/691,333  
 Reply dated November 14, 2007  
 In response to May 14, 2007 Office Action

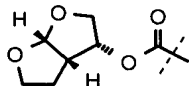
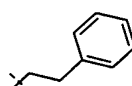

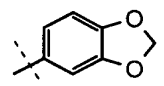
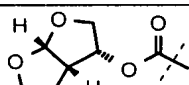
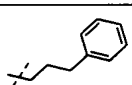

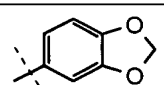
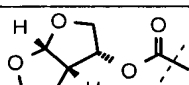
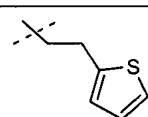

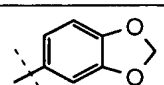
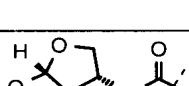
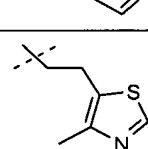

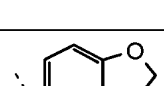
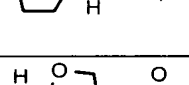
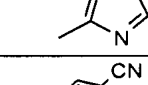

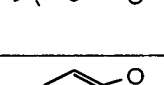
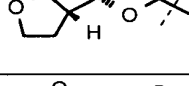
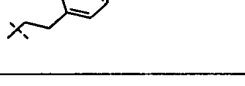

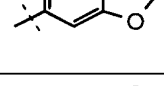
A	S(O) <sub>2</sub> E	R <sup>8</sup>
60		



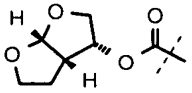


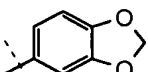
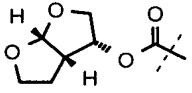
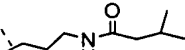

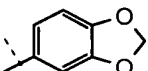
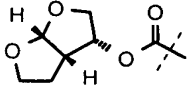
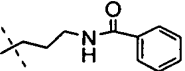

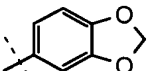
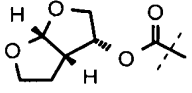
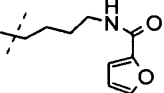

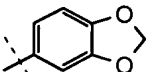
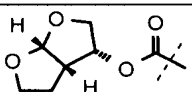
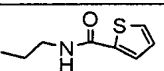

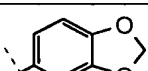
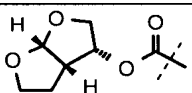
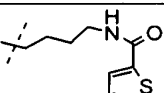

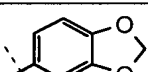
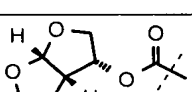
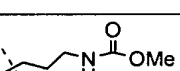

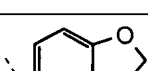
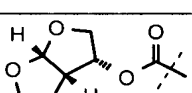
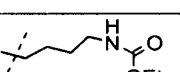

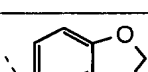
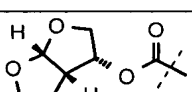
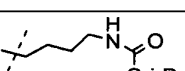


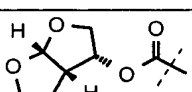
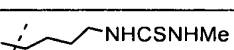

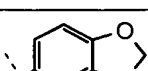
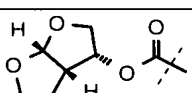
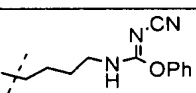

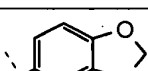
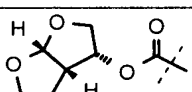
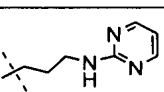

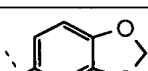
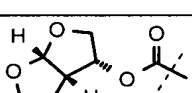
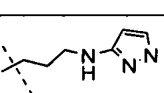

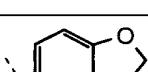
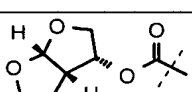
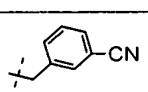

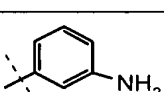
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Appln. No. 10/691,333  
 Reply dated November 14, 2007  
 In response to May 14, 2007 Office Action

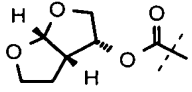


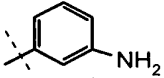
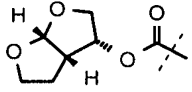


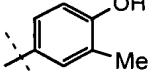
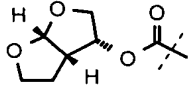

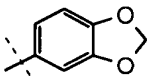
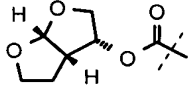
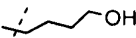

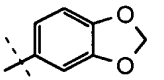
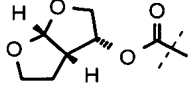
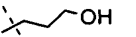

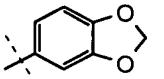
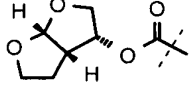
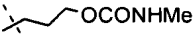

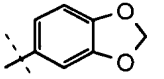
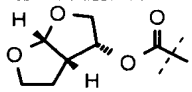


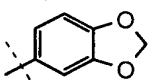
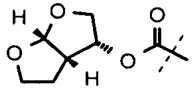
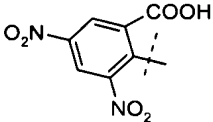

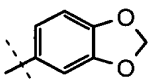
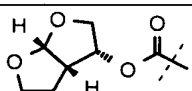
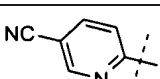

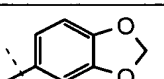
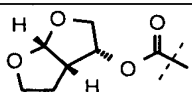
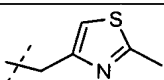

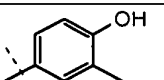
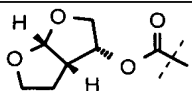


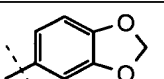
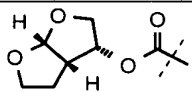
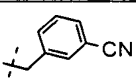

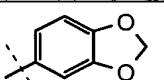
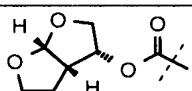
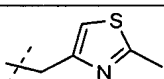

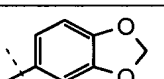


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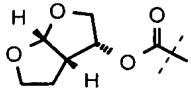
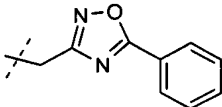

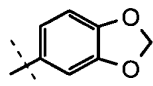
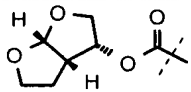


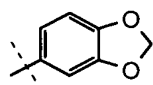
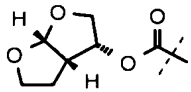
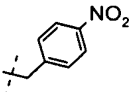

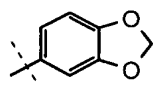
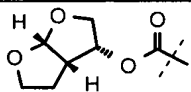
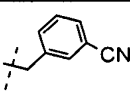
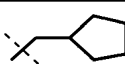
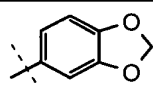
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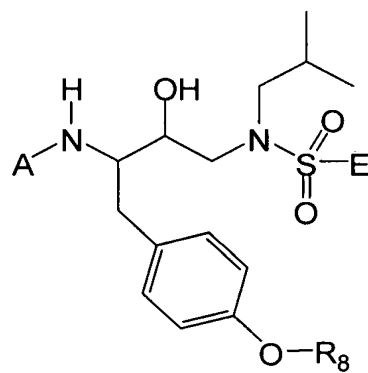
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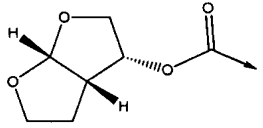
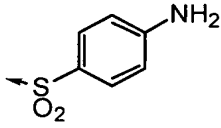
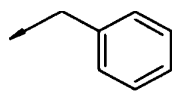
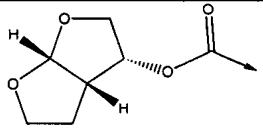
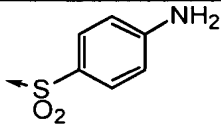
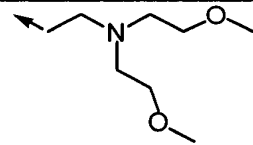
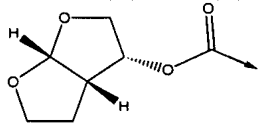
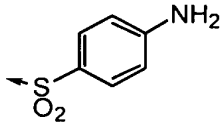
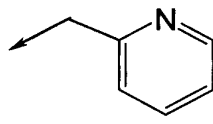
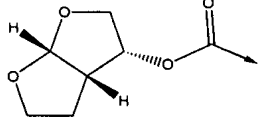
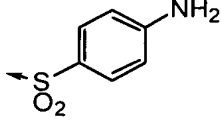
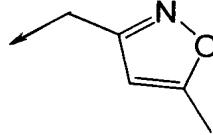
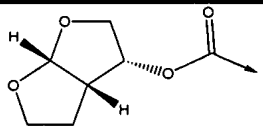
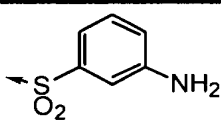
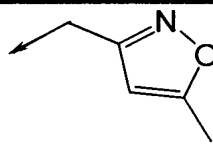
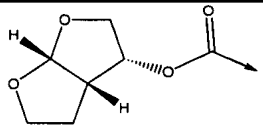
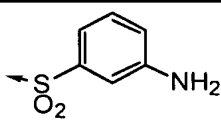
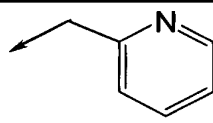
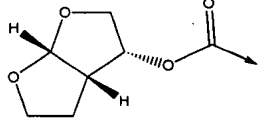
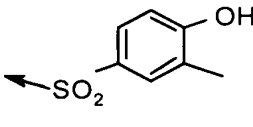
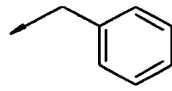
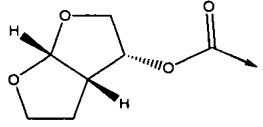
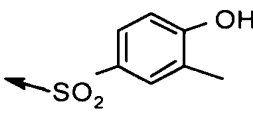
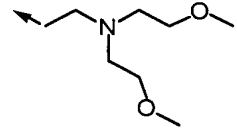
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16. (Currently amended) The compound according to claim 15, wherein said compound is selected from compound numbers: 26, 27, 31, 33, 35, 36, 38, 41, 43, 48, 49, 51, 52, 53, 54, 55, 56, 57, 59, 60, 71, 72, 73, 74, 209, 215, 227, 233, 237, 281, 289, 295, 309, 322, 335, 364, 368, 382 and 383, wherein said compound numbers are as defined below: [[.]]

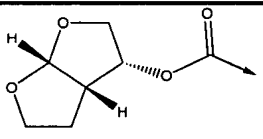
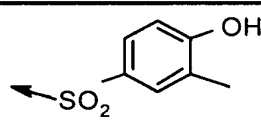
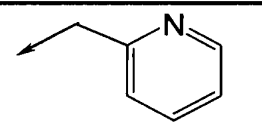
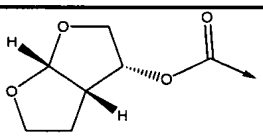
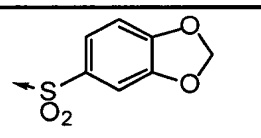
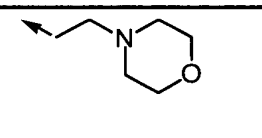
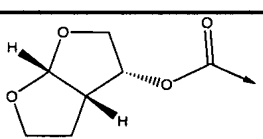
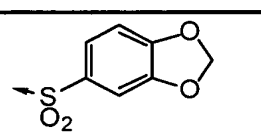
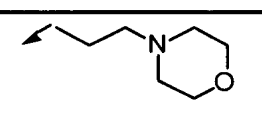
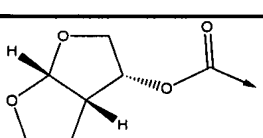
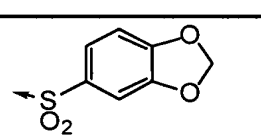
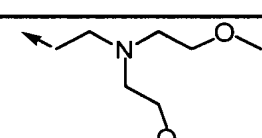
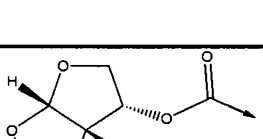
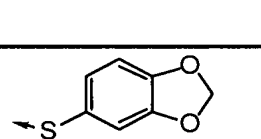
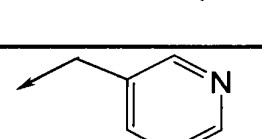
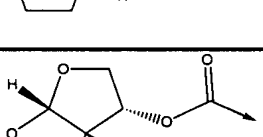
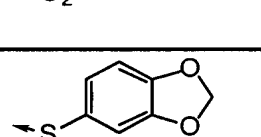
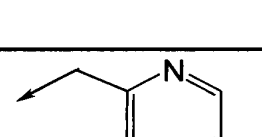
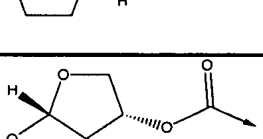
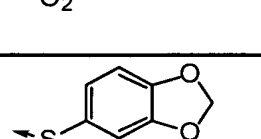
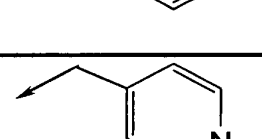
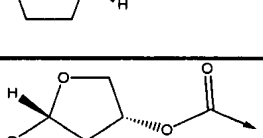
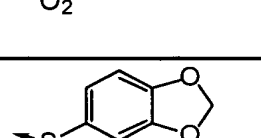
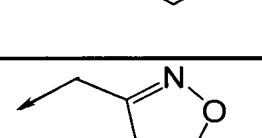
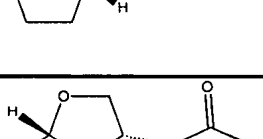
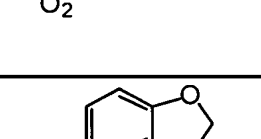
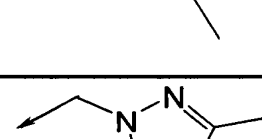


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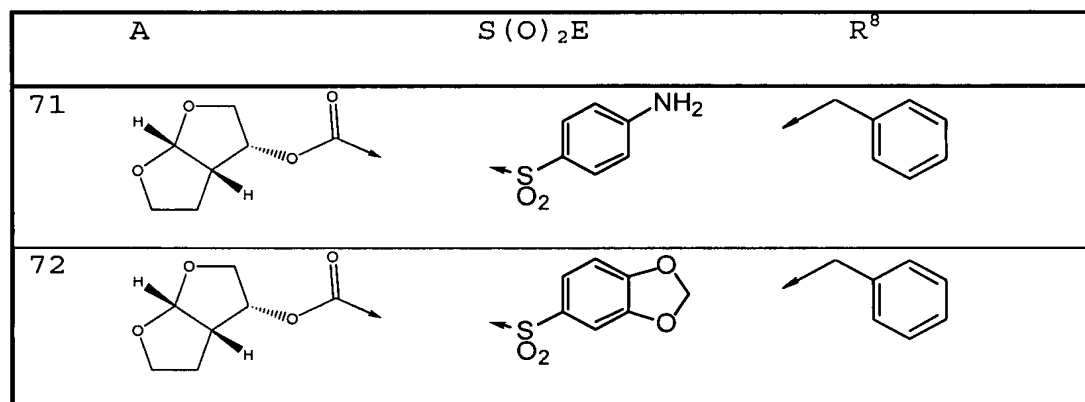
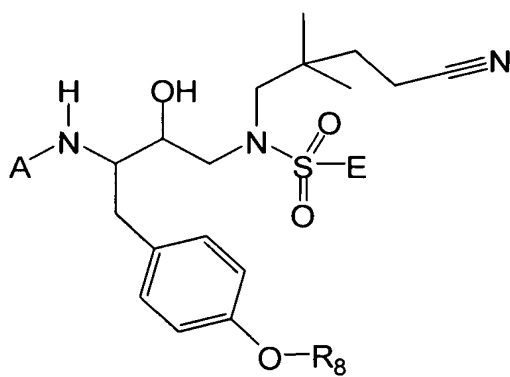
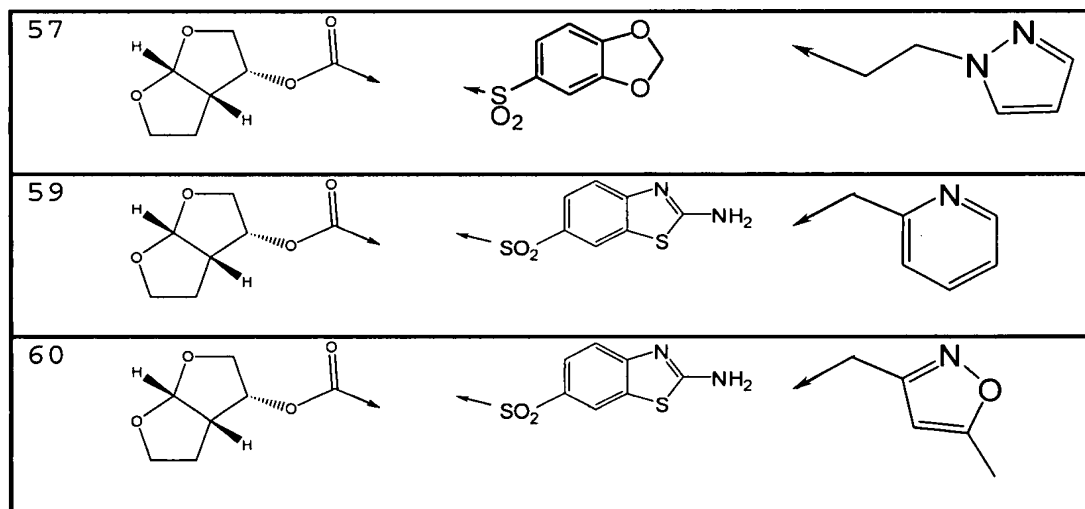
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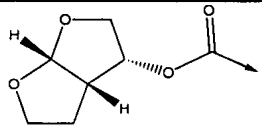
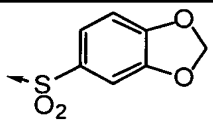
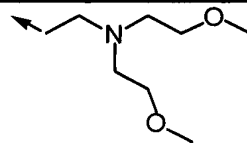
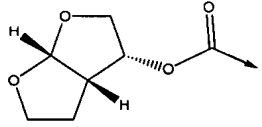
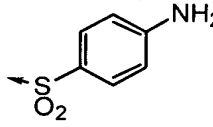
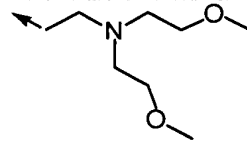
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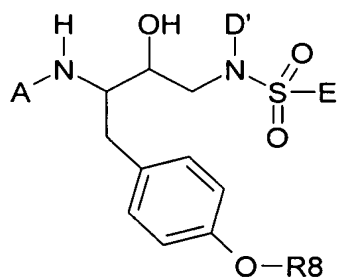
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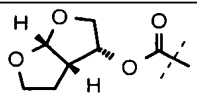
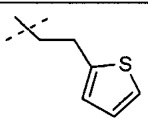
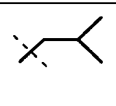
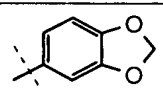
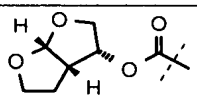
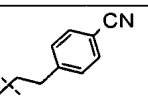
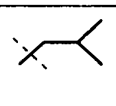
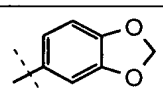
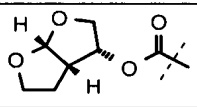
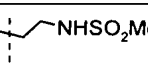
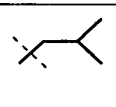
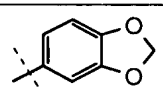
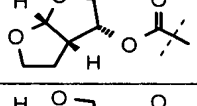
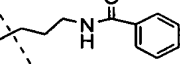
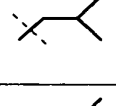
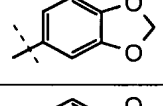
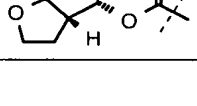
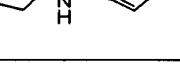
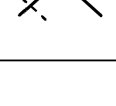
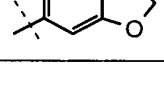
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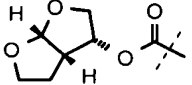
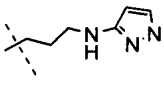

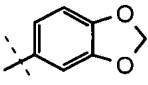
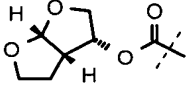
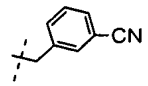

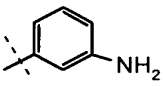
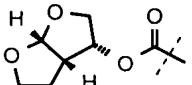


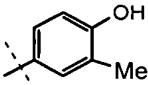
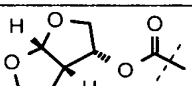

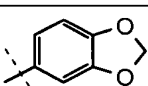
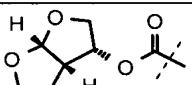


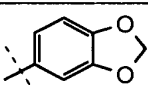
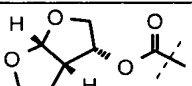
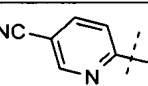

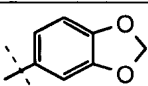
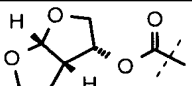


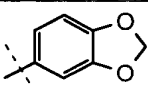
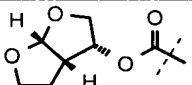
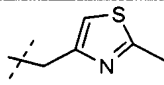

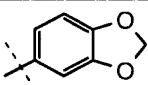
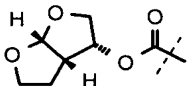


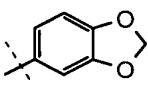
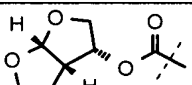
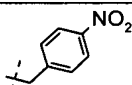

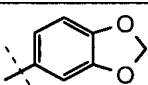
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	A	$S(O)_2E$	$R^8$
73			
74			



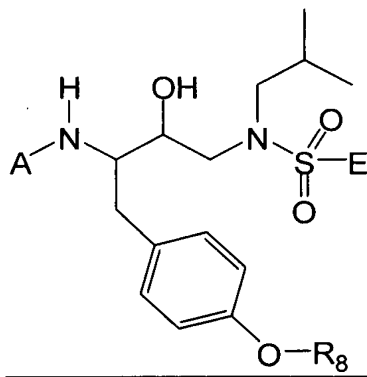
	A	$R^8$	$D'$	E
209				
215				
227				
233				
237				

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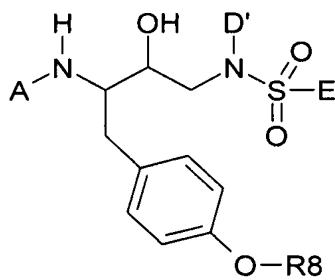
281				
289				
295				
309		-CONHMe		
322				
335				
364				
368				
382				
383				

17. (Currently amended) The compound according to claim 16, wherein said compound is selected from compound numbers: 54, 209, 237, 281, 295, 309, and 368, wherein the compound numbers are as defined below: [[.]]

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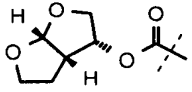


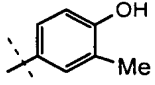
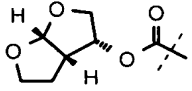

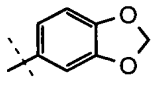
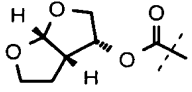
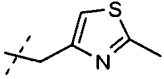

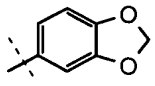


	A	S(O) <sub>2</sub> E	R <sup>8</sup>
54			



	A	R <sup>8</sup>	D'	E
209				
237				
281				

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295				
309		-CONHMe		
368				

18. (Previously presented) A composition comprising a compound according to claim 1 or 9, in an amount sufficient to inhibit an aspartyl protease; and a pharmaceutically acceptable carrier.

19. (Original) The composition according to claim 18, wherein said composition is in a pharmaceutically acceptable form for administration to a human being.

20. (Original) The composition according to claim 18, wherein said composition additionally comprises an additional anti-viral agent.

21. (Original) The composition according to claim 18, wherein said composition comprises at least one additional therapeutic agent selected from (1 alpha, 2 beta, 3 alpha)-9-[2,3-bis(hydroxymethyl)cyclobutyl]- guanine [(-)BHCG, SQ-

34514]; oxetanocin-G (3,4-bis-(hydroxymethyl)-2-oxetanosyl]guanine); acyclic nucleosides, such as acyclovir, valaciclovir, famciclovir, ganciclovir or penciclovir; acyclic nucleoside phosphonates, such as (S)-1-(3-hydroxy-2-phosphonyl-methoxypropyl)cytosine (HPMPC); ribonucleotide reductase inhibitors, such as 2-acetylpyridine 5-[(2-chloroanilino)thiocarbonyl] thiocarbonohydrazone, 3'-azido-3'-deoxythymidine; other 2',3'-dideoxynucleosides such as 2',3'-dideoxycytidine, 2',3'-dideoxyadenosine, 2',3'-dideoxyinosine, or 2',3'-didehydrothymidine; other aspartyl protease inhibitors, such as indinavir, ritonavir, nelfinavir, or [3S-[3R\*(1R\*, 2S\*)]]-[3[[[(4-aminophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-tetrahydro-3-furanyl ester (amprenavir); oxathiolane nucleoside analogues, such as (-)-cis-1-(2-hydroxymethyl)-1,3-oxathiolane 5-yl)-cytosine (lamivudine) or cis-1-(2-(hydroxymethyl)-1,3-oxathiolan-5-yl)-5-fluorocytosine (FTC); 3'-deoxy-3'-fluorothymidine; 5-chloro-2',3'-dideoxy-3'-fluorouridine; (-)-cis-4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol; ribavirin; 9-[4-hydroxy-2-(hydroxymethyl)but-1-yl]-guanine (H2G); tat inhibitors, such as 7-chloro-5-(2-pyrrolyl)-3H-1,4-benzodiazepin-2-(H)one (Ro5-3335) or 7-chloro-1,3-dihydro-5-(1H-pyrrol-2-yl)-3H-1,4-benzodiazepin-2-amine (Ro24-7429);

interferons, such as  $\alpha$ -interferon; renal excretion inhibitors such as probenecid; nucleoside transport inhibitors such as dipyridamole; pentoxifylline; N-acetylcysteine (NAC); Procysteine;  $\alpha$ -trichosanthin; phosphonoformic acid; immunomodulators, such as interleukin II or thymosin; granulocyte macrophage colony stimulating factors; erythropoetin; soluble CD<sub>4</sub> and genetically engineered derivatives thereof; non-nucleoside reverse transcriptase inhibitors (NNRTIs), such as nevirapine (BI-RG-587), loviride ( $\alpha$ -APA) or delavuridine (BHAP); phosphonoformic acid; 1,4-dihydro-2H-3,1-benzoxazin-2-ones NNRTIs, such as (-)-6-chloro-4-cyclopropylethynyl-4-trifluoromethyl-1,4-dihydro-2H-3,1-benzoxazin-2-one (L-743,726 or DMP-266); or quinoxaline NNRTIs, such as isopropyl (2S)-7-fluoro-3,4-dihydro-2-ethyl-3-oxo-1(2H)-quinoxalinecarboxylate (HBY1293).

22. (Previously presented) The composition according to claim 18, wherein said composition is in an orally available dosage form.

23. (Withdrawn) A method of treating a patient infected with a virus that depends upon an aspartyl protease for an obligatory event in its life cycle comprising the step



of administering to said patient a composition according to claim 18.

24. (Withdrawn) A method of treating a patient infected with HIV-I or HIV-II comprising the step of administering to said patient a composition according to claim 18.

25. (Withdrawn) The method according to claim 23, comprising the additional step of administering to said patient an additional therapeutic agent selected from (1 alpha, 2 beta, 3 alpha)-9-[2,3-bis(hydroxymethyl)cyclobutyl]guanine [(-)BHCG, SQ-34514]; oxetanocin-G (3,4-bis-(hydroxymethyl)-2-oxetanosyl]guanine); acyclic nucleosides, such as acyclovir, valaciclovir, famciclovir, ganciclovir or penciclovir; acyclic nucleoside phosphonates, such as (S)-1-(3-hydroxy-2-phosphonyl-methoxypropyl)cytosine (HPMPC); ribonucleotide reductase inhibitors, such as 2-acetylpyridine 5-[(2-chloroanilino)thiocarbonyl) thiocarbonohydrazone, 3'azido-3'-deoxythymidine; other 2',3'-dideoxynucleosides such as 2',3'-dideoxycytidine, 2',3'-dideoxyadenosine, 2',3'-dideoxyinosine, or 2',3'-didehydrothymidine; other aspartyl protease inhibitors, such as indinavir, ritonavir, nelfinavir, or [3S-[3R\*(1R\*, 2S\*)]]-[3[[[(4-aminophenyl)sulfonyl](2-

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methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-  
tetrahydro-3-furanyl ester (amprenavir); oxathiolane  
nucleoside analogues, such as (-)-cis-1-(2-hydroxymethyl)-1,3-  
oxathiolane 5-yl)-cytosine (lamivudine) or cis-1-(2-  
(hydroxymethyl)-1,3-oxathiolan-5-yl)-5-fluorocytosine (FTC);  
3'-deoxy-3'-fluorothymidine; 5-chloro-2',3'-dideoxy-3'-  
fluorouridine; (-)-cis-4-[2-amino-6-(cyclopropylamino)-9H-  
purin-9-yl]-2-cyclopentene-1-methanol; ribavirin; 9-[4-  
hydroxy-2-(hydroxymethyl)but-1-yl]-guanine (H2G); tat  
inhibitors, such as 7-chloro-5-(2-pyrrolyl)-3H-1,4-  
benzodiazepin-2-(H)one (Ro5-3335) or 7-chloro-1,3-dihydro-5-  
(1H-pyrrol-2-yl)-3H-1,4-benzodiazepin-2-amine (Ro24-7429);  
interferons, such as  $\alpha$ -interferon; renal excretion inhibitors  
such as probenecid; nucleoside transport inhibitors such as  
dipyridamole; pentoxifylline; N-acetylcysteine (NAC);  
Procysteine;  $\alpha$ -trichosanthin; phosphonoformic acid;  
immunomodulators, such as interleukin II or thymosin;  
granulocyte macrophage colony stimulating factors;  
erythropoietin; soluble CD<sub>4</sub> and genetically engineered  
derivatives thereof; non-nucleoside reverse transcriptase  
inhibitors (NNRTIs), such as nevirapine (BI-RG-587), loviride  
( $\alpha$ -APA) or delavuridine (BHAP); phosphonoformic acid; 1,4-  
dihydro-2H-3,1-benzoxazin-2-ones NNRTIs, such as (-)-6-chloro-

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4-cyclopropylethynyl-4-trifluoromethyl-1,4-dihydro-2H-3,1-benzoxazin-2-one (L-743,726 or DMP-266); or quinoxaline NNRTIs, such as isopropyl (2S)-7-fluoro-3,4-dihydro-2-ethyl-3-oxo-1(2H)-quinoxalinecarboxylate (HBY1293), wherein said additional agent is administered to said patient as either a separate dosage form or as a single dosage form together with said compound.

26. (Withdrawn) A method of treating a patient diagnosed with AIDS; AIDS related complex (ARC); progressive generalized lymphadenopathy (PGL); Kaposi's sarcoma, thrombocytopenic purpura; AIDS-related neurological conditions such as AIDS dementia complex, multiple sclerosis or tropical paraperesis; anti-HIV antibody-positive conditions; or HIV-positive conditions, comprising the step of administering to said patient a composition according to claim 18.

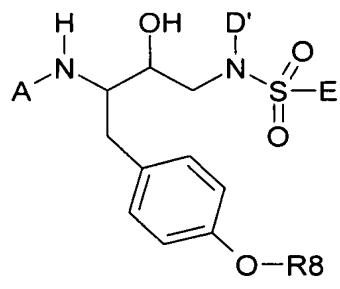
27. (Withdrawn) The method according to claim 26, comprising the additional step of administering to said patient an additional therapeutic agent selected from (1 alpha, 2 beta, 3 alpha)-9-[2,3-bis(hydroxymethyl)cyclobutyl]guanine [(-)BHCG, SQ-34514]; oxetanocin-G (3,4-bis-(hydroxymethyl)-2-oxetanosyl]guanine); acyclic nucleosides, such as acyclovir, valaciclovir, famciclovir, ganciclovir or

penciclovir; acyclic nucleoside phosphonates, such as (S)-1-(3-hydroxy-2-phosphonyl-methoxypropyl)cytosine (HPMPC); ribonucleotide reductase inhibitors, such as 2-acetylpyridine 5-[(2-chloroanilino)thiocarbonyl] thiocarbonohydrazone, 3'-azido-3'-deoxythymidine; other 2',3'-dideoxynucleosides such as 2',3'-dideoxycytidine, 2',3'-dideoxyadenosine, 2',3'-dideoxyinosine, or 2',3'-didehydrothymidine; other aspartyl protease inhibitors, such as indinavir, ritonavir, nelfinavir, or [3S-[3R\*(1R\*, 2S\*)]]-[3[[[(4-aminophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-tetrahydro-3-furanyl ester (amprenavir); oxathiolane nucleoside analogues, such as (-)-cis-1-(2-hydroxymethyl)-1,3-oxathiolane 5-yl)-cytosine (lamivudine) or cis-1-(2-(hydroxymethyl)-1,3-oxathiolan-5-yl)-5-fluorocytosine (FTC); 3'-deoxy-3'-fluorothymidine; 5-chloro-2',3'-dideoxy-3'-fluorouridine; (-)-cis-4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol; ribavirin; 9-[4-hydroxy-2-(hydroxymethyl)but-1-yl]-guanine (H2G); tat inhibitors, such as 7-chloro-5-(2-pyrryl)-3H-1,4-benzodiazepin-2-(H)one (Ro5-3335) or 7-chloro-1,3-dihydro-5-(1H-pyrrol-2-yl)-3H-1,4-benzodiazepin-2-amine (Ro24-7429); interferons, such as  $\alpha$ -interferon; renal excretion inhibitors such as probenecid; nucleoside transport inhibitors such as

dipyridamole; pentoxifylline; N-acetylcysteine (NAC);  
Procysteine;  $\alpha$ -trichosanthin; phosphonoformic acid;  
immunomodulators, such as interleukin II or thymosin;  
granulocyte macrophage colony stimulating factors;  
erythropoetin; soluble CD<sub>4</sub> and genetically engineered  
derivatives thereof; non-nucleoside reverse transcriptase  
inhibitors (NNRTIs), such as nevirapine (BI-RG-587), loviride  
( $\alpha$ -APA) or delavuridine (BHAP); phosphonoformic acid; 1,4-  
dihydro-2H-3,1-benzoxazin-2-ones NNRTIs, such as (-)-6-chloro-  
4-cyclopropylethynyl-4-trifluoromethyl-1,4-dihydro-2H-3,1-  
benzoxazin-2-one (L-743,726 or DMP-266); or quinoxaline  
NNRTIs, such as isopropyl (2S)-7-fluoro-3,4-dihydro-2-ethyl-3-  
oxo-1(2H)-quinoxalinecarboxylate (HBY1293), wherein said  
additional agent is administered to said patient as either a  
separate dosage form or as a single dosage form together with  
said compound.

28. (Currently amended) The compound according to  
claim 15, wherein said compound is compound number 368,  
wherein said compound number is as defined below: [[.]]

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29. (Previously presented) The composition according to claim 19, wherein said composition is in an orally available dosage form.

30. (Previously presented) The composition according to claim 20, wherein said composition is in an orally available dosage form.

31. (Previously presented) The composition according to claim 21, wherein said composition is in an orally available dosage form.

32. (Withdrawn) The method according to claim 24, comprising the additional step of administering to said

patient an additional therapeutic agent selected from (1  
alpha, 2 beta, 3 alpha)-9-[2,3-bis(hydroxymethyl)  
cyclobutyl]guanine [(-)BHCG, SQ-34514]; oxetanocin-G (3,4-bis-  
(hydroxymethyl)-2-oxetanosyl]guanine); acyclic nucleosides,  
such as acyclovir, valaciclovir, famciclovir, ganciclovir or  
penciclovir; acyclic nucleoside phosphonates, such as (S)-1-  
(3-hydroxy-2-phosphonyl-methoxypropyl)cytosine (HPMPC);  
ribonucleotide reductase inhibitors, such as 2-acetylpyridine  
5-[(2-chloroanilino)thiocarbonyl) thiocarbonohydrazone,  
3'-azido-3'-deoxythymidine; other 2',3'-dideoxynucleosides such  
as 2',3'-dideoxycytidine, 2',3'-dideoxyadenosine, 2',3'-  
dideoxyinosine, or 2',3'-didehydrothymidine; other aspartyl  
protease inhibitors, such as indinavir, ritonavir, nelfinavir,  
or [3S-[3R\*(1R\*, 2S\*)]]-[3[[[(4-aminophenyl)sulfonyl](2-  
methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-  
tetrahydro-3-furanyl ester (amprenavir); oxathiolane  
nucleoside analogues, such as (-)-cis-1-(2-hydroxymethyl)-1,3-  
oxathiolane 5-yl)-cytosine (lamivudine) or cis-1-(2-  
(hydroxymethyl)-1,3-oxathiolan-5-yl)-5-fluorocytosine (FTC);  
3'-deoxy-3'-fluorothymidine; 5-chloro-2',3'-dideoxy-3'-  
fluorouridine; (-)-cis-4-[2-amino-6-(cyclopropylamino)-9H-  
purin-9-yl]-2-cyclopentene-1-methanol; ribavirin; 9-[4-  
hydroxy-2-(hydroxymethyl)but-1-yl]-guanine (H2G); tat  
inhibitors, such as 7-chloro-5-(2-pyrryl)-3H-1,4-

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benzodiazepin-2-(H)one (Ro5-3335) or 7-chloro-1,3-dihydro-5-(1H-pyrrol-2yl)-3H-1,4-benzodiazepin-2-amine (Ro24-7429); interferons, such as  $\alpha$ -interferon; renal excretion inhibitors such as probenecid; nucleoside transport inhibitors such as dipyridamole; pentoxifylline; N-acetylcysteine (NAC); Procysteine;  $\alpha$ -trichosanthin; phosphonoformic acid; immunomodulators, such as interleukin II or thymosin; granulocyte macrophage colony stimulating factors; erythropoetin; soluble CD<sub>4</sub> and genetically engineered derivatives thereof; non-nucleoside reverse transcriptase inhibitors (NNRTIs), such as nevirapine (BI-RG-587), loviride ( $\alpha$ -APA) or delavuridine (BHAP); phosphonoformic acid; 1,4-dihydro-2H-3,1-benzoxazin-2-ones NNRTIs, such as (-)-6-chloro-4-cyclopropylethynyl-4-trifluoromethyl-1,4-dihydro-2H-3,1-benzoxazin-2-one (L-743,726 or DMP-266); or quinoxaline NNRTIs, such as isopropyl (2S)-7-fluoro-3,4-dihydro-2-ethyl-3-oxo-1(2H)-quinoxalinecarboxylate (HBY1293), wherein said additional agent is administered to said patient as either a separate dosage form or as a single dosage form together with said compound.

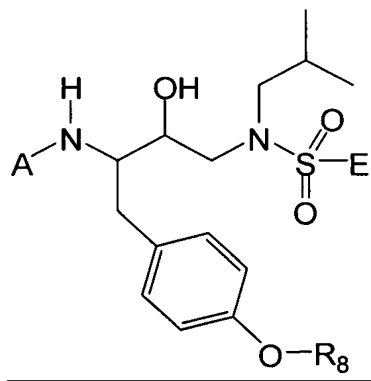
33. (Currently amended) A compound selected from compound numbers: 26, 27, 28, 29, 30, 31, ~~32~~, 32, 33, 34, 35,



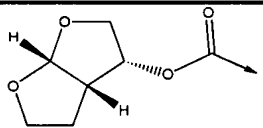
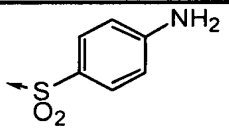
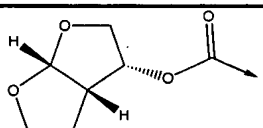
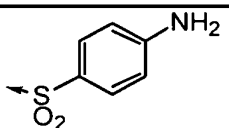
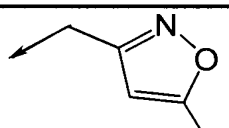
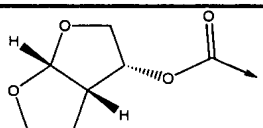
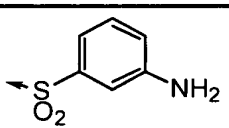
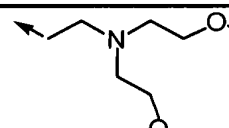
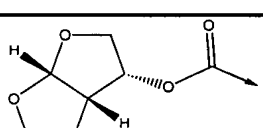
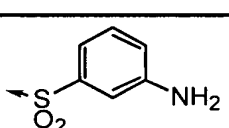
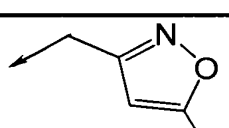
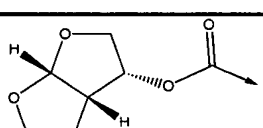
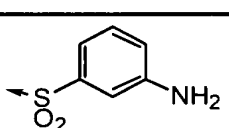
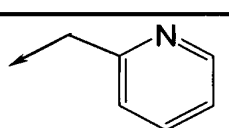
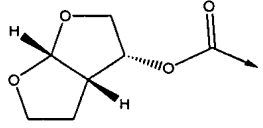
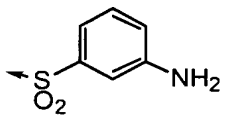
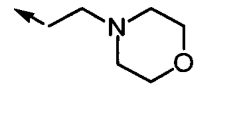
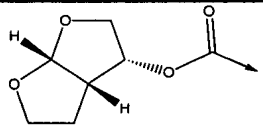
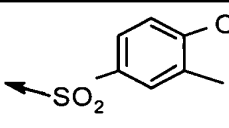
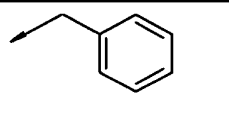
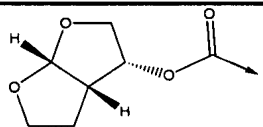
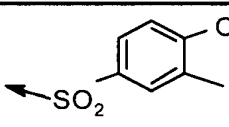
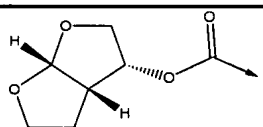
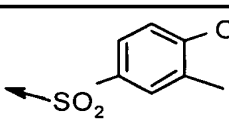
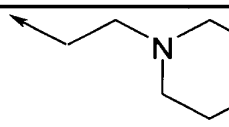
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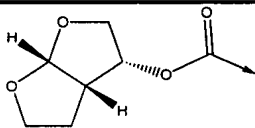
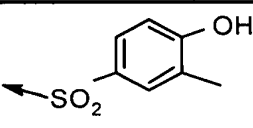
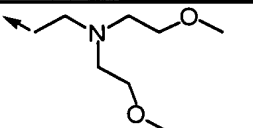
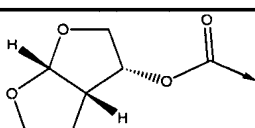
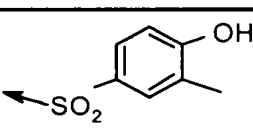
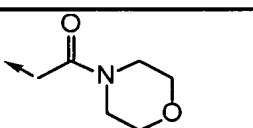
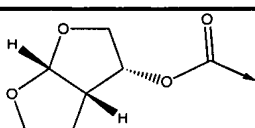
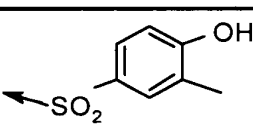
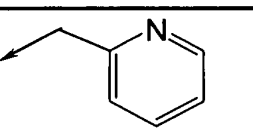
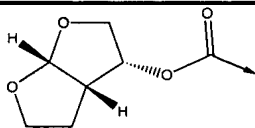
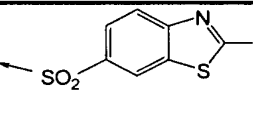
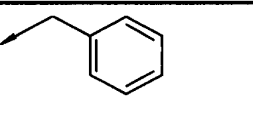
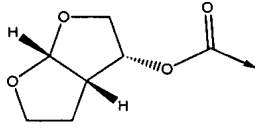
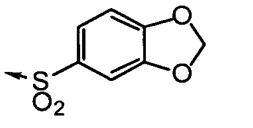
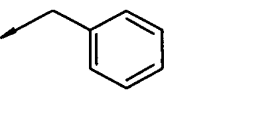
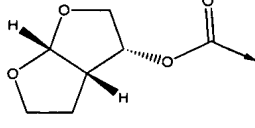
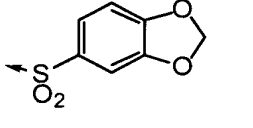
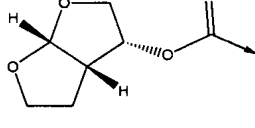
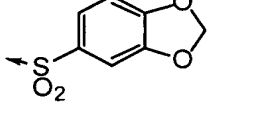
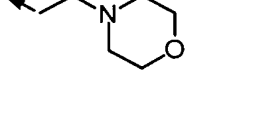
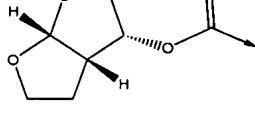
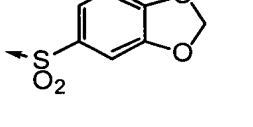
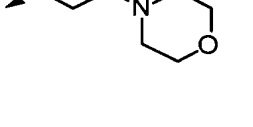
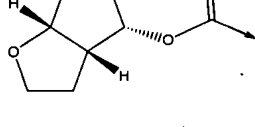
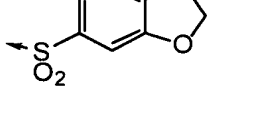
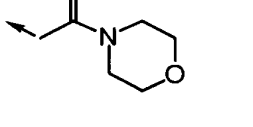
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compound numbers are as defined below: [[.]]

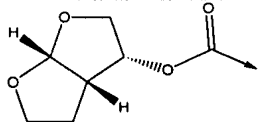
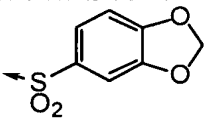
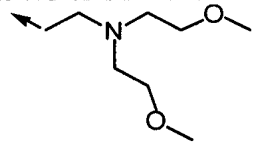
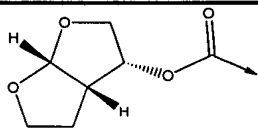
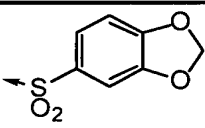
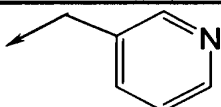
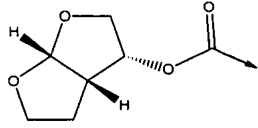
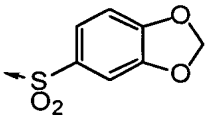
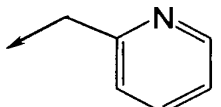
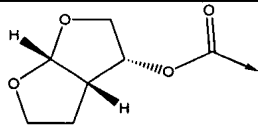
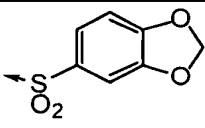
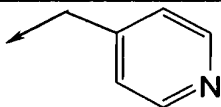
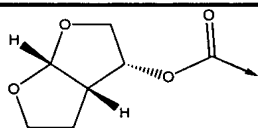
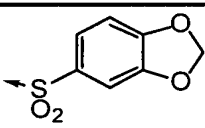
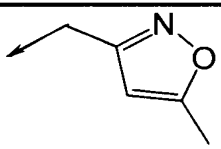
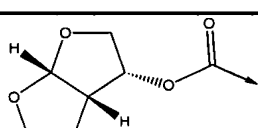
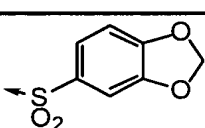
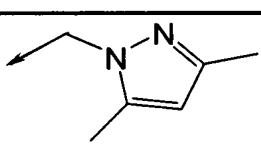
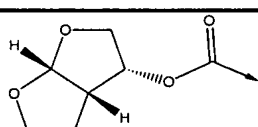
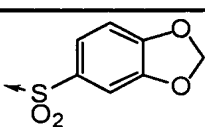
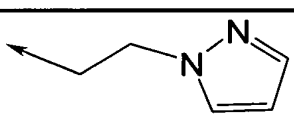
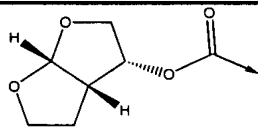
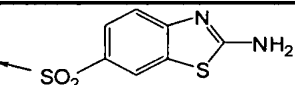
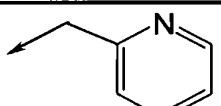
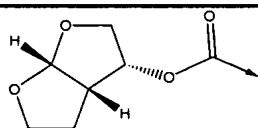
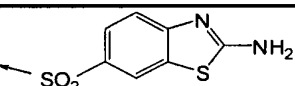
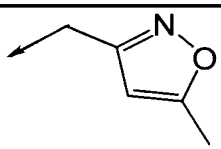
Appln. No. 10/691,333  
 Reply dated November 14, 2007  
 In response to May 14, 2007 Office Action

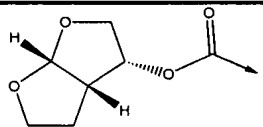
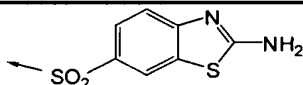
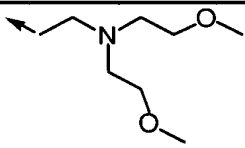
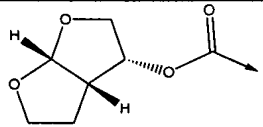
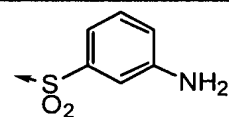
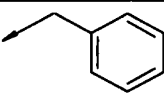
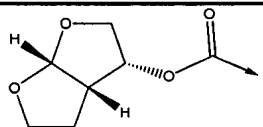
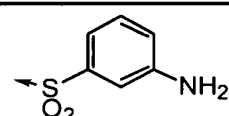
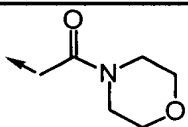


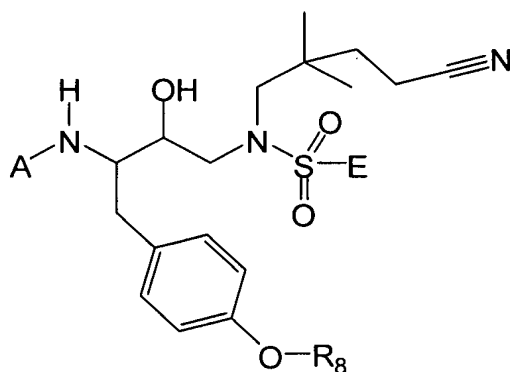
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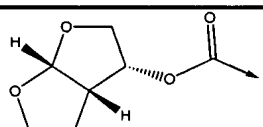
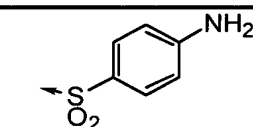
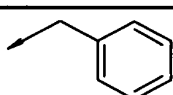
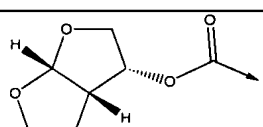
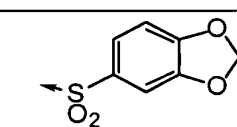
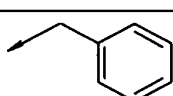
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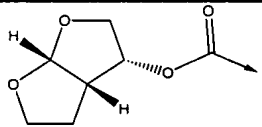
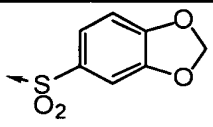
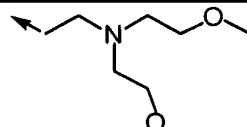
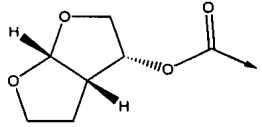
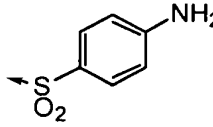
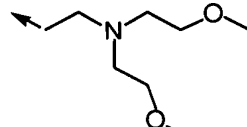
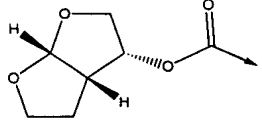
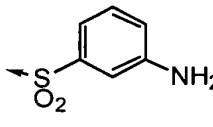
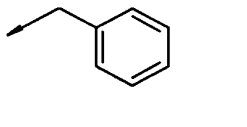
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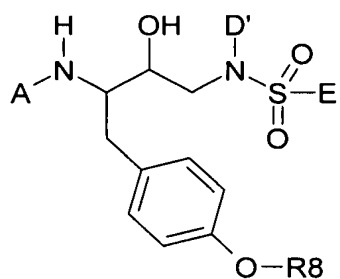
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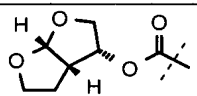
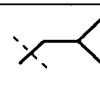
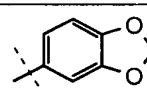
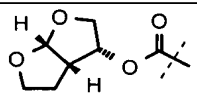
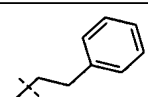
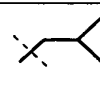
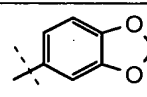
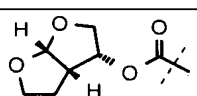
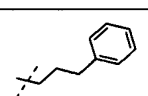
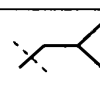
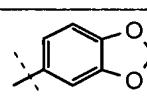


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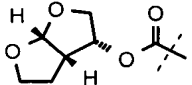


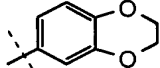
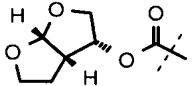
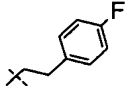

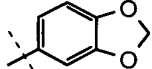
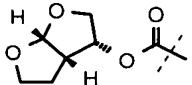
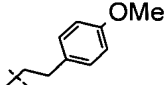

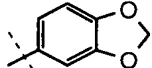
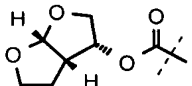
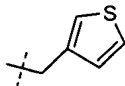

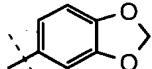
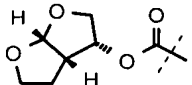
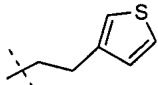

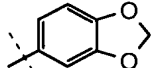
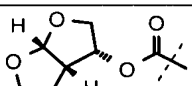
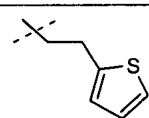

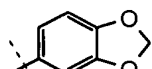
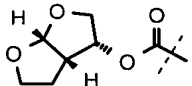
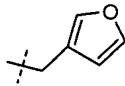

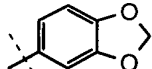
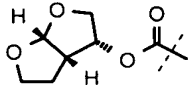
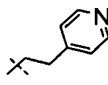

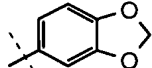
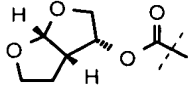
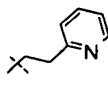

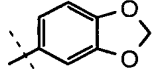
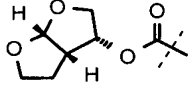
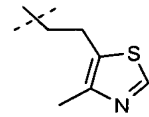

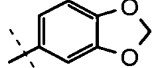
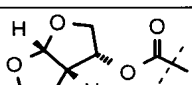
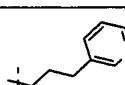

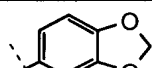
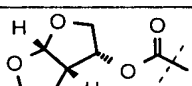
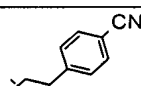

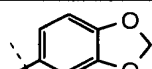
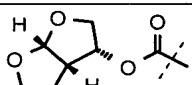
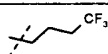

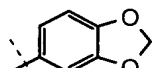
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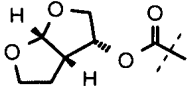


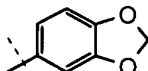
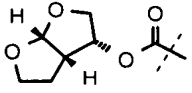
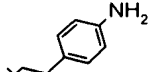

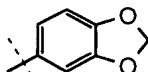
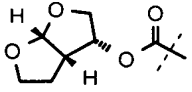


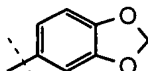
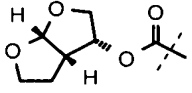


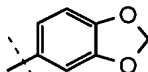
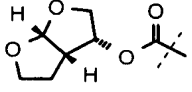


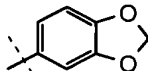
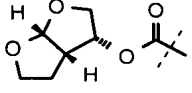


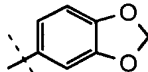
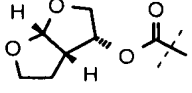


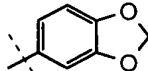
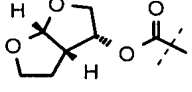


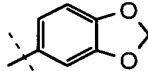
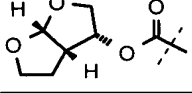


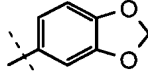
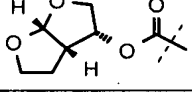


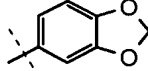
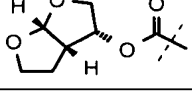


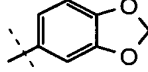
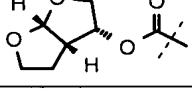


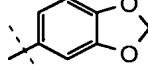
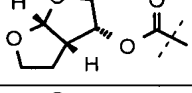
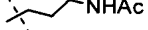

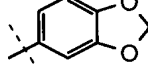
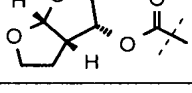


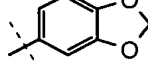
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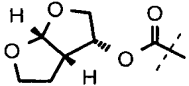
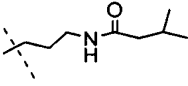
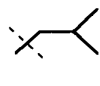
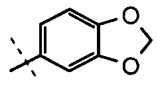
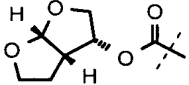
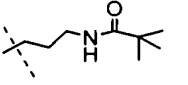
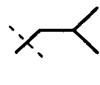
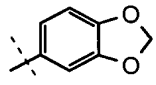
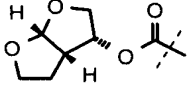
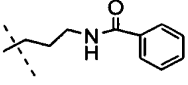
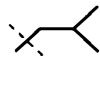
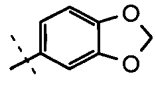
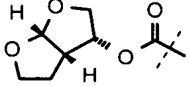
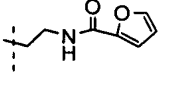
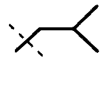
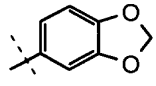
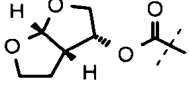
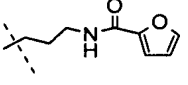
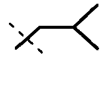
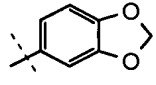
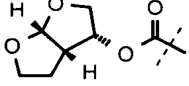
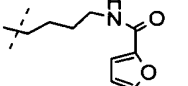
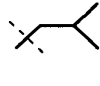
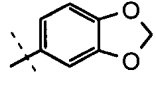
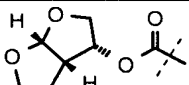
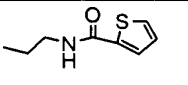
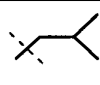
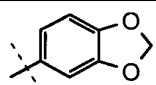
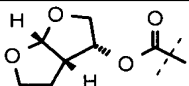
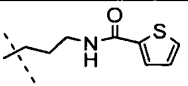
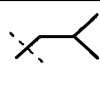
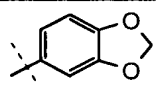
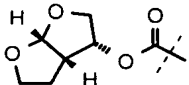
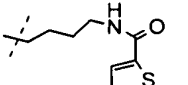
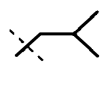
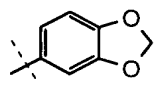
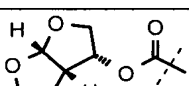
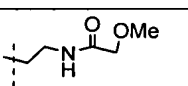
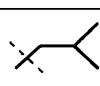
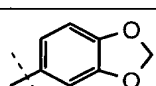
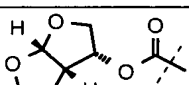
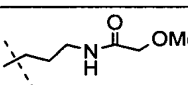
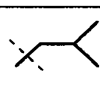
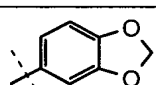
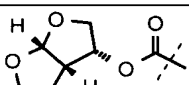
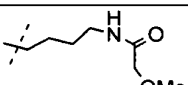
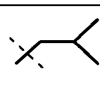
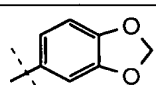
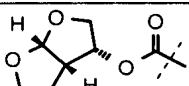
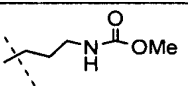
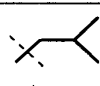
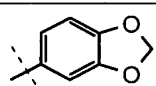
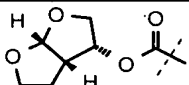
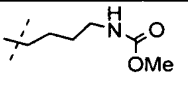
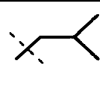
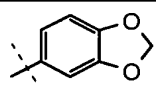
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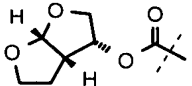
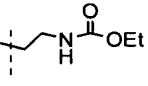

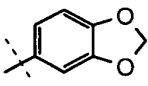
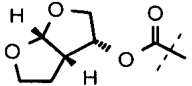
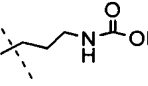

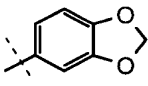
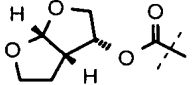
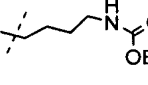

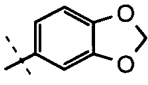
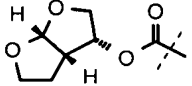
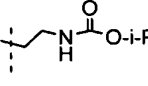

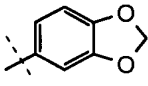
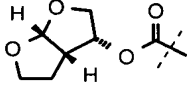
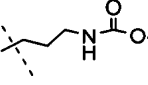

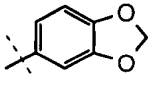
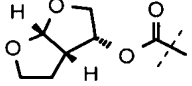
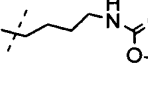

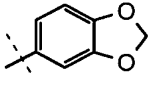
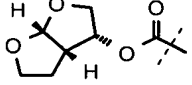
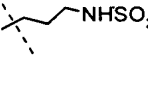

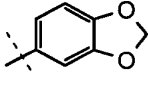
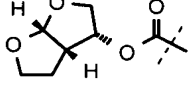
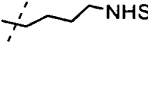

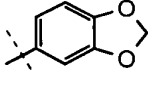
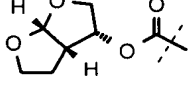
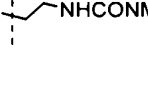

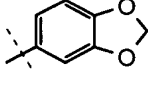
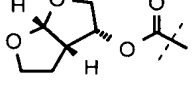
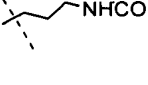

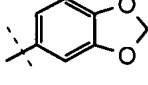
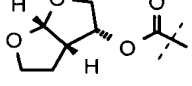
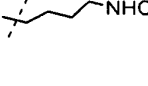

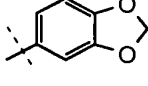
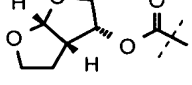
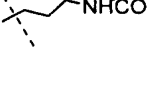

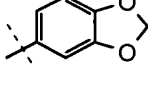
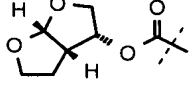
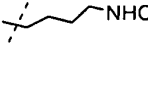

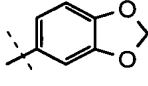
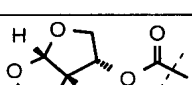
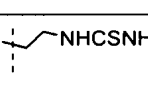

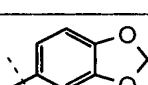
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 Reply dated November 14, 2007  
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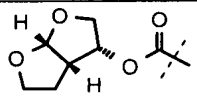
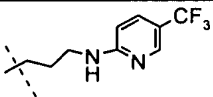

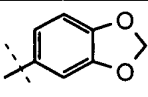
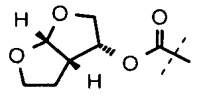
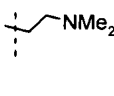

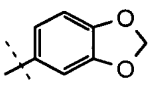
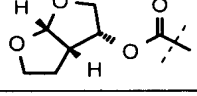
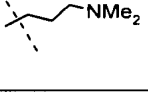

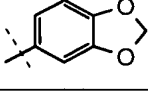
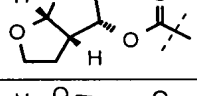
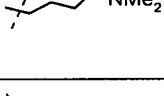

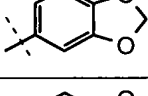
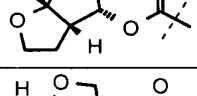


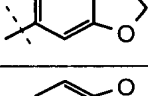
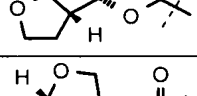
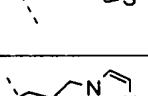

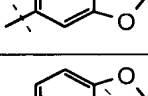
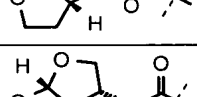
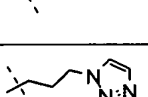

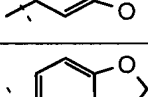
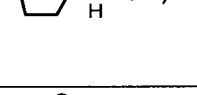
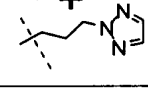


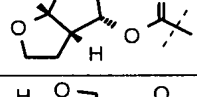
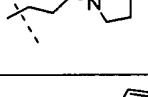

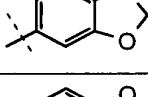
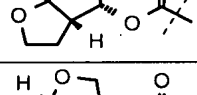
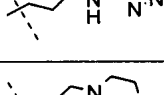

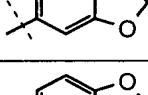
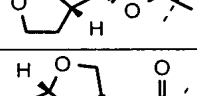
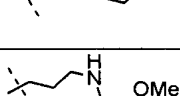

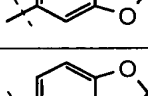
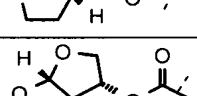
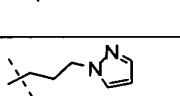

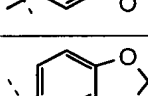
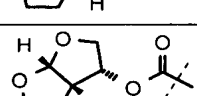
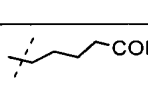

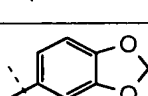
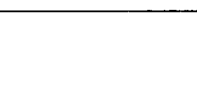
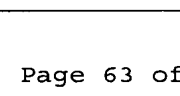


Appln. No. 10/691,333  
 Reply dated November 14, 2007  
 In response to May 14, 2007 Office Action

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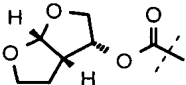
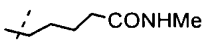

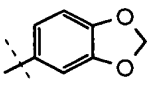
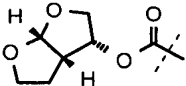
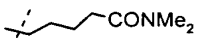

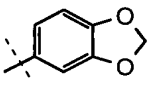
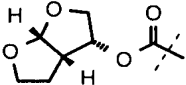
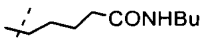

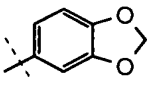
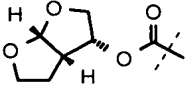
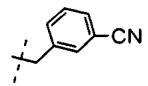

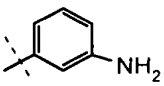
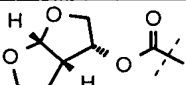


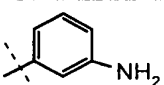
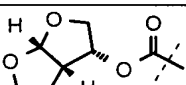

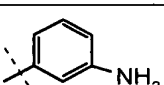
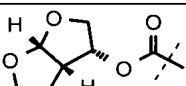
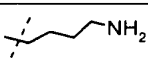

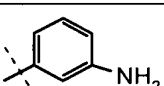
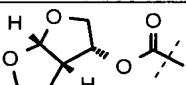


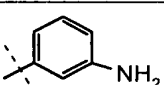
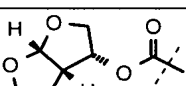


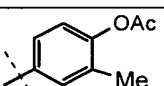
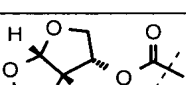


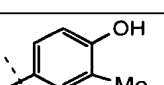
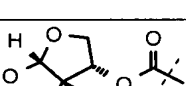


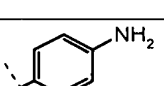
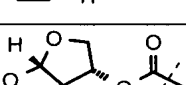
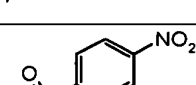

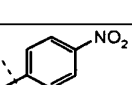
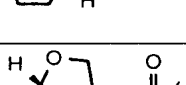
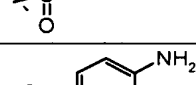

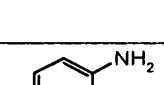
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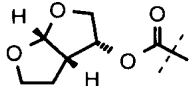
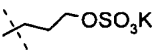

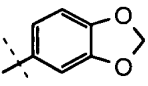
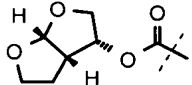


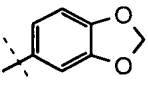
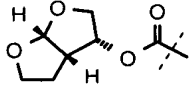


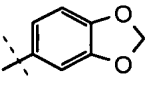
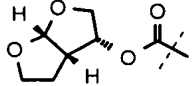
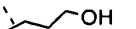

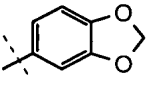
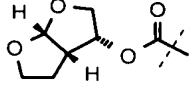


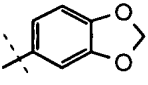
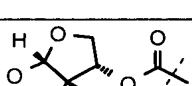
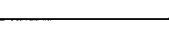

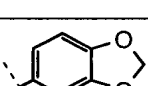
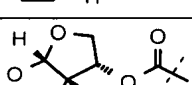


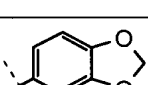
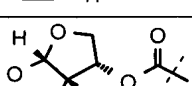
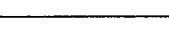

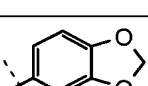
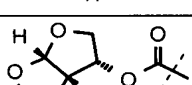
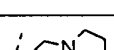

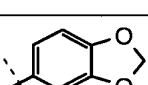
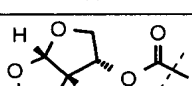


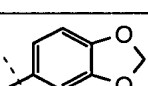
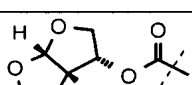
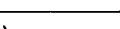

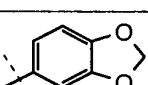
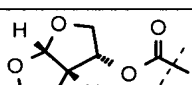

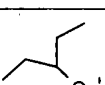
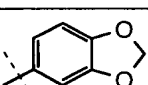
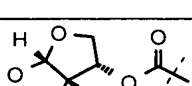
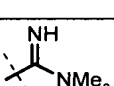

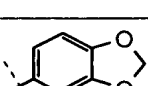
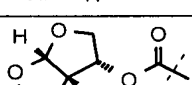
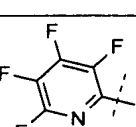

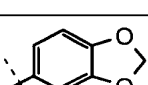
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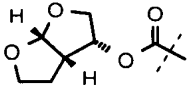
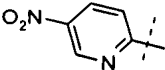

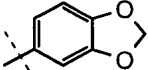
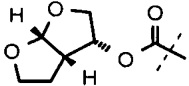
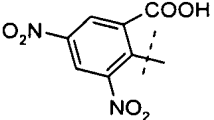

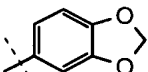
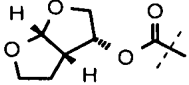
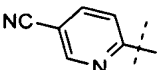

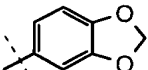
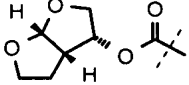
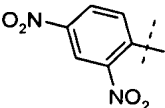

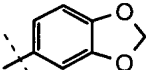
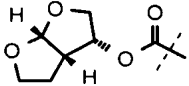


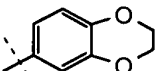
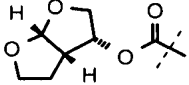
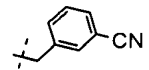

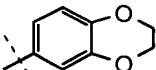
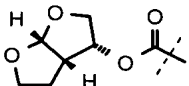
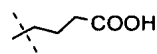

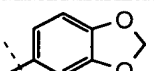
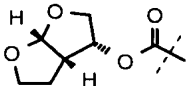


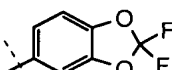
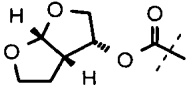

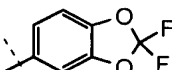
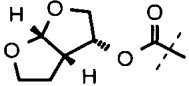
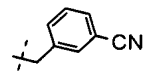

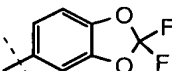
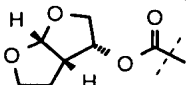


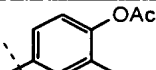
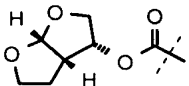


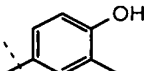
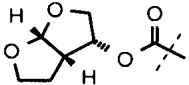

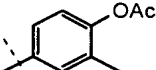
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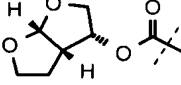


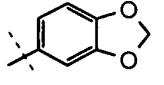
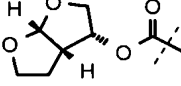


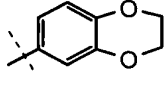
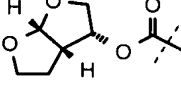
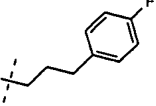

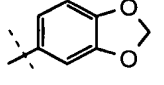
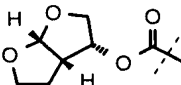
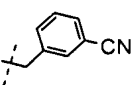

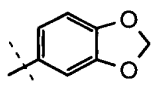
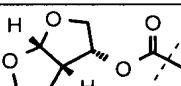
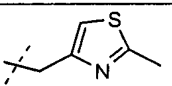

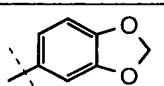
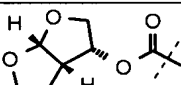
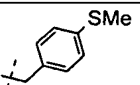

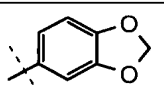
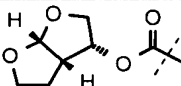
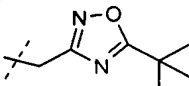

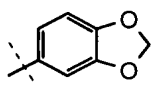
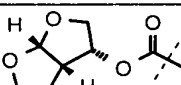
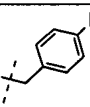

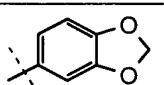
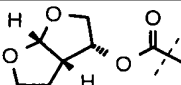
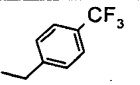

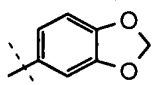
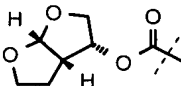
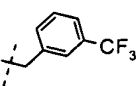

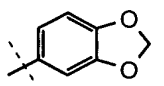
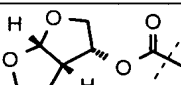
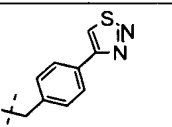

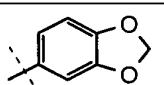
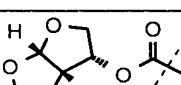
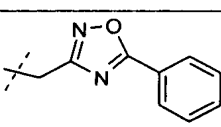

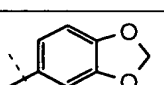
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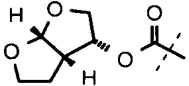
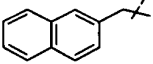

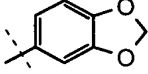
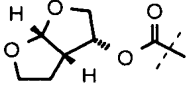
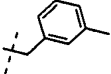

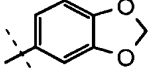
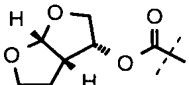
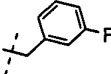

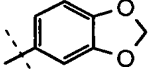
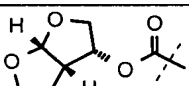
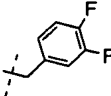

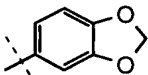
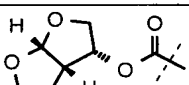
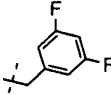

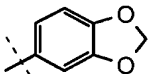
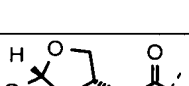
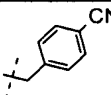

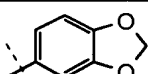
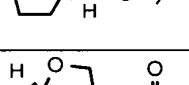
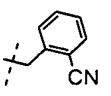

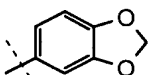
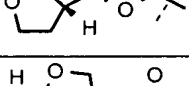
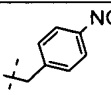

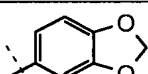
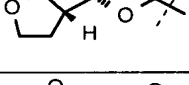
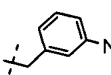

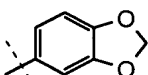
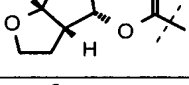
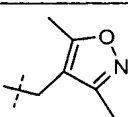

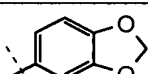
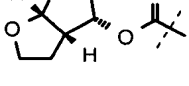
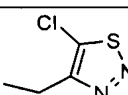

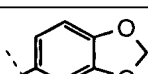
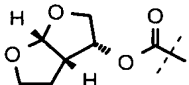
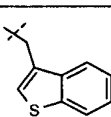

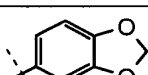
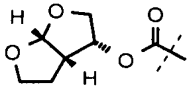
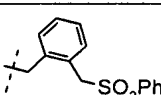

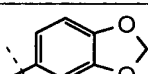
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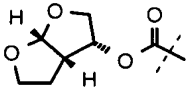
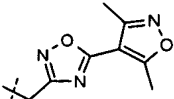

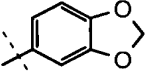
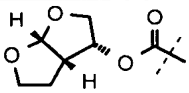
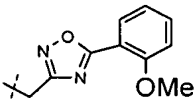

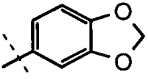
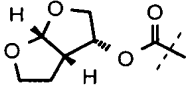
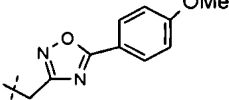

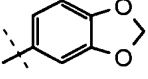
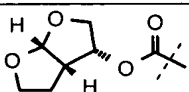
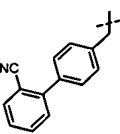

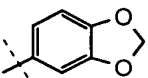
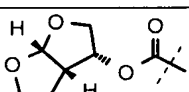


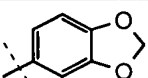
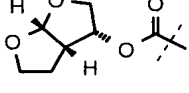
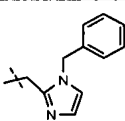

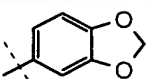
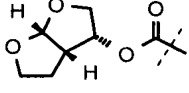

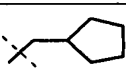
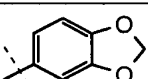
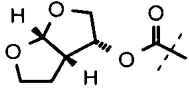
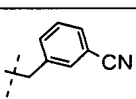
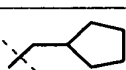
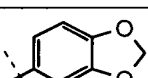
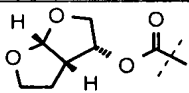

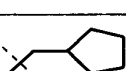
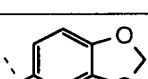
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